

INDEX OF SUBJECTS

A

- A6, immunostaining of paraffin-embedded tissues and, 188
- Abnormal clot quality test, antivenom therapy in Russell's viper bite and, 412
- AccuProbe, rapid conventional tests versus, for identification of *Streptococcus pneumoniae* and, 271
- Accuracy, of portable blood glucose monitoring, effect of glucose level and prandial state on, 247
- Acquired immunodeficiency syndrome
bone marrow in
Kaposi's sarcoma in, 561
morphology and clinical correlation of, 63
intranodal leiomyoma and, 858
molecular pathology and diagnosis of infectious diseases and, S8
mycobacteremia and, rapid diagnosis based on inclusions in peripheral blood smear and, 369
Pneumocystis carinii infection and
presenting as necrotizing thyroiditis and hypothyroidism, 489
widespread dissemination of, aerosolized pentamidine treatment and, 96
spindle cell pseudotumor attributable to *Mycobacterium avium-intracellulare* in, positive staining for desmin and, 271
- Activated partial thromboplastin times
duplicate testing of, 77
measurement from capillary sample of whole blood, 222
monitoring of heparin therapy and, *in vivo* effect of Factor VIII on, 271
- Adenocarcinoma
esophageal, D-14 expression in, 271
monoclonal antibody 44-3A6 in diagnosis of, 315
prostatic, differential diagnosis of, morphologic characteristics of nucleoli in, 271
of urinary bladder, 13
of uterine cervix, human papillomavirus types 16 and 18 in, 647
- Adenomatoid malformation, cystic, congenital, bronchoalveolar carcinoma of lung and, 889
- Adenomatous hyperplasia, in human cirrhotic livers, argyrophilic nucleolar organizer regions and alpha-fetoprotein in, 850
- Adenovirus encephalitis, pediatric, 271
- ADP, platelet aggregation by, prevention by ascorbic acid, 271
- Adrenal cortical neoplasms, pediatric, clinicopathologic study with emphasis on prognostic factors and, 271
- Adrenocortical hyperplasia, bilateral primary pigmented, nodular, psammomatous melanotic schwannoma and, 484
- Alanine aminotransferase, serum, effects of one-month physical training program on, 271
- Algorithms, S50
- Alkaline phosphatase, bone-like variant of, 749
- Alpha-1-antichymotrypsin, prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Alpha-fetoprotein, in adenomatous hyperplasia, in human cirrhotic livers, 850
- Alpha-lipoprotein, prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Alpha-2-Zn-glycoprotein, prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Aluminum, rapid microscopic detection of malaria parasites in blood smears and, permanently stained with aluminum and morin, 424
- Amniotic fluid, isolation of *Ureaplasma urealyticum* in, adverse outcome in pregnancy after, 271
- Amplification, PCR, from paraffin-embedded tissues, effects of fixative and fixation time and, 117
- Ampulla of Vater, neuroendocrine carcinoma of, 51
- Anaerobic incubation, survival of *Gardnarella vaginalis* in human urine and, 234
- Anemia, ceftazidime-induced hemolysis with drug-dependent antibodies, reactive by immune complex and drug absorption mechanisms, 393
- Aneuploidy, in benign seminal vesicle epithelium, 271
- Antibiotics, ceftazidime-induced hemolysis with drug-dependent antibodies and, reactive by immune complex and drug absorption mechanisms, 393
- Antibodies. *See also* Monoclonal antibodies; *specific antibodies*
antiendothelial, serologic characterization of Rocky Mountain spotted fever and, 725
antiphospholipid, serologic characterization of Rocky Mountain spotted fever and, 725
antisperm, detection using concurrent cytofluorometry and indirect immunofluorescence microscopy, 242
drug-dependent, ceftazidime-induced hemolysis with, reactive by immune complex and drug absorption mechanisms, 393
marking paraffin-embedded leukocytes, 607
- Anticardiolipin, serologic characterization of Rocky Mountain spotted fever and, 725
- Anti-CD56 reactivity, in neuroendocrine neoplasms, 271
- Antiendothelial antibodies, serologic characterization of Rocky Mountain spotted fever and, 725
- Antigenic sites, preservation after fixation in tissue, 271
- Antigen release, from breast carcinoma, implications of, 271
- Anti-HDV, anti-delta EIA kit for detection of, 240
- Antiphospholipid antibodies, serologic characterization of Rocky Mountain spotted fever and, 725
- Antisperm antibodies, detection using concurrent cytofluorometry and indirect immunofluorescence microscopy, 242
- Antivenom therapy, in Russell's viper bite, 412
- Apoproteins, serum levels of, as indicators for coronary artery disease, severely angiographically assessed, 597
- Appendiceal carcinoids, histogenesis of, 271
- Argyrophilic nucleolar organizer regions, in adenomatous hyperplasia, in human cirrhotic livers, 850
- Arias-Stella reaction, in fallopian tube epithelium, 892
- Artificial intelligence, S50
- Ascites, carcinoma with, false-positive immunostaining of normal epithelia and, fluid preparations of antimelanoma monoclonal antibody HMB45 and, 454
- Ascorbic acid, prevention of platelet aggregation by norepinephrine, collagen, ADP, and ristocetin and, 271

INDEX OF SUBJECTS

A

- A6, immunostaining of paraffin-embedded tissues and, 188
- Abnormal clot quality test, antivenom therapy in Russell's viper bite and, 412
- AccuProbe, rapid conventional tests versus, for identification of *Streptococcus pneumoniae* and, 271
- Accuracy, of portable blood glucose monitoring, effect of glucose level and prandial state on, 247
- Acquired immunodeficiency syndrome
bone marrow in
Kaposi's sarcoma in, 561
morphology and clinical correlation of, 63
intranodal leiomyoma and, 858
molecular pathology and diagnosis of infectious diseases and, S8
mycobacteremia and, rapid diagnosis based on inclusions in peripheral blood smear and, 369
Pneumocystis carinii infection and
presenting as necrotizing thyroiditis and hypothyroidism, 489
widespread dissemination of, aerosolized pentamidine treatment and, 96
spindle cell pseudotumor attributable to *Mycobacterium avium-intracellulare* in, positive staining for desmin and, 271
- Activated partial thromboplastin times
duplicate testing of, 77
measurement from capillary sample of whole blood, 222
monitoring of heparin therapy and, *in vivo* effect of Factor VIII on, 271
- Adenocarcinoma
esophageal, D-14 expression in, 271
monoclonal antibody 44-3A6 in diagnosis of, 315
prostatic, differential diagnosis of, morphologic characteristics of nucleoli in, 271
of urinary bladder, 13
of uterine cervix, human papillomavirus types 16 and 18 in, 647
- Adenomatoid malformation, cystic, congenital, bronchoalveolar carcinoma of lung and, 889
- Adenomatous hyperplasia, in human cirrhotic livers, argyrophilic nucleolar organizer regions and alpha-fetoprotein in, 850
- Adenovirus encephalitis, pediatric, 271
- ADP, platelet aggregation by, prevention by ascorbic acid, 271
- Adrenal cortical neoplasms, pediatric, clinicopathologic study with emphasis on prognostic factors and, 271
- Adrenocortical hyperplasia, bilateral primary pigmented, nodular, psammomatous melanotic schwannoma and, 484
- Alanine aminotransferase, serum, effects of one-month physical training program on, 271
- Algorithms, S50
- Alkaline phosphatase, bone-like variant of, 749
- Alpha-1-antichymotrypsin, prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Alpha-fetoprotein, in adenomatous hyperplasia, in human cirrhotic livers, 850
- Alpha-lipoprotein, prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Alpha-2-Zn-glycoprotein, prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Aluminum, rapid microscopic detection of malaria parasites in blood smears and, permanently stained with aluminum and morin, 424
- Amniotic fluid, isolation of *Ureaplasma urealyticum* in, adverse outcome in pregnancy after, 271
- Amplification, PCR, from paraffin-embedded tissues, effects of fixative and fixation time and, 117
- Ampulla of Vater, neuroendocrine carcinoma of, 51
- Anaerobic incubation, survival of *Gardnarella vaginalis* in human urine and, 234
- Anemia, ceftazidime-induced hemolysis with drug-dependent antibodies, reactive by immune complex and drug absorption mechanisms, 393
- Aneuploidy, in benign seminal vesicle epithelium, 271
- Antibiotics, ceftazidime-induced hemolysis with drug-dependent antibodies and, reactive by immune complex and drug absorption mechanisms, 393
- Antibodies. *See also* Monoclonal antibodies; *specific antibodies*
antiendothelial, serologic characterization of Rocky Mountain spotted fever and, 725
antiphospholipid, serologic characterization of Rocky Mountain spotted fever and, 725
antisperm, detection using concurrent cytofluorometry and indirect immunofluorescence microscopy, 242
drug-dependent, ceftazidime-induced hemolysis with, reactive by immune complex and drug absorption mechanisms, 393
marking paraffin-embedded leukocytes, 607
- Anticardiolipin, serologic characterization of Rocky Mountain spotted fever and, 725
- Anti-CD56 reactivity, in neuroendocrine neoplasms, 271
- Antiendothelial antibodies, serologic characterization of Rocky Mountain spotted fever and, 725
- Antigenic sites, preservation after fixation in tissue, 271
- Antigen release, from breast carcinoma, implications of, 271
- Anti-HDV, anti-delta EIA kit for detection of, 240
- Antiphospholipid antibodies, serologic characterization of Rocky Mountain spotted fever and, 725
- Antisperm antibodies, detection using concurrent cytofluorometry and indirect immunofluorescence microscopy, 242
- Antivenom therapy, in Russell's viper bite, 412
- Apoproteins, serum levels of, as indicators for coronary artery disease, severely angiographically assessed, 597
- Appendiceal carcinoids, histogenesis of, 271
- Argyrophilic nucleolar organizer regions, in adenomatous hyperplasia, in human cirrhotic livers, 850
- Arias-Stella reaction, in fallopian tube epithelium, 892
- Artificial intelligence, S50
- Ascites, carcinoma with, false-positive immunostaining of normal epithelia and, fluid preparations of antimelanoma monoclonal antibody HMB45 and, 454
- Ascorbic acid, prevention of platelet aggregation by norepinephrine, collagen, ADP, and ristocetin and, 271

- Aspiration cytology, papillary carcinoma of thyroid and, with mucoepidermoid features, 175
- Atherosclerosis, severely angiographically assessed, serum apoprotein levels as indicators for, 597
- Autoantibodies, correlations between, in large reference laboratory population, 271
- Autoimmunity, cefazidime-induced hemolysis with drug-dependent antibodies and, reactive by immune complex and drug absorption mechanisms, 393
- Automation
- automated immunohistochemical estrogen receptor and, in fixed embedded breast carcinomas, 335
 - hematology and, Coulter STKS, field evaluation of, 207
 - relevance of delta checks for error detection in highly automated laboratories and, 271
 - specimen identification by bar-code label printer and, 271
- Autopsy
- in academe, S42
 - of stillborns, diagnostic yield in, 271
- Autotransfusion, in trauma, comparison of systems for, 271

B

- Babesiosis, 774
- Bacterial identification systems
- AccuProbe versus rapid conventional tests for, *Streptococcus pneumoniae* and, 271
 - rapid, comparison of, 271
- Bacterial infection, bartonellosis and, S58
- Bacteriuria, effect on quantitation of benzoylgonine, by gas chromatography mass spectrometry, 271
- Ballistic injury, cytologic manifestations of, 660
- Bar-code label printer, automation of specimen identification by, 271
- Barrett's esophagus, D-14 expression in, 271
- Bartonellosis, S58
- Basal cell keratin, clear cell cribriform hyperplasia of prostate and, immunohistochemical and DNA flow cytometric study of, 446
- Bayesian classification, nuclear grading of breast carcinoma and, by image analysis, S29
- B-cells
- phenotype of, My4 antibody staining and, non-Hodgkin's lymphoma and, 363
 - precursors of, in normal pediatric bone marrow, 816
- Bence Jones, proteinuria/proteinemia, isolated, clinical spectrum of, 271
- Benign seminal vesicle epithelium, aneuploidy in, 271
- Benzoylgonine, quantitation of, effect of bacteriuria on, by gas chromatography mass spectrometry, 271
- Biochemical estrogen receptor assays, comparison and evaluation of scoring techniques with immunohistochemical techniques and, 271
- Biopsy
- bone marrow, in evaluation of fever of unknown origin, 271
 - fine-needle aspiration. *See* Fine-needle aspiration biopsy
 - of lymph nodes, glycol methacrylate embedding and, 150
 - pituitary, lymphocytic hypophysitis and pulmonary sarcoidosis and, 506
 - serum enzyme alterations in chronic muscle disease and, 402
- Biotinylated probes, detection of human papillomavirus DNA by *in situ* hybridization with, on Papanicolaou's smears, 475
- Bipolaris, *in vitro* susceptibility patterns of clinical isolates of, phaeohyphomycosis and, 271
- Blastocystis hominis, morphology and frequency of occurrence of, 271
- Blood, peripheral. *See* Peripheral blood
- Blood cells, identification of human papillomavirus DNA sequences in peripheral mononuclear cells and, 540
- Blood coagulation, mixing study reagents and dilution effect in lupus anticoagulant testing and, 408
- Blood count, Coulter STKS, field evaluation of, 207
- Blood glucose monitoring, portable
- accuracy of, effect of glucose level and prandial state on, 247
 - diabetic patients and, outcomes of, 112
- Blood group antigens, in esophageal squamous carcinoma, 844
- Blood groups, red cell survival studies with anti-Te^a and, 87
- Blood smear, peripheral, rapid diagnosis of mycobacteremia and, in AIDS, 369
- Blood transfusion
- autotransfusion in trauma and, comparison of systems for, 271
 - concurrent blood use review for, effectiveness of, 271
 - febrile reactions to
 - efficacy of leukopoor platelets for prevention of, 733
 - platelet transfusions and, 609 - hemolytic transfusion reaction mimicked by myoglobulinemia and, 271
 - HTLV-I associated myelopathy after, in hairy cell leukemia, 72
- Blood typing, discrepant, Munchausen syndrome by proxy documented by, 232
- Blood usage
- concurrent blood use review for blood transfusions and, effectiveness of, 271
 - laboratory information system for, 389
- Bone, metastatic small cell tumor of, with 'true' rosettes and glial fibrillary acidic protein positivity, 166
- Bone isoenzyme, bone-like variant of alkaline phosphatase and, 749
- Bone marrow
- acute suppression of, expansion of immature thymic precursor cells in peripheral blood after, 824
 - after treatment with recombinant human interleukin-3, 355
 - biopsy of, in evaluation of fever of unknown origin, 271
 - hematopoietic elements in cerebrospinal fluid in children and, 532
 - in HIV-related disease, morphology and clinical correlation of, 63
 - Kaposi's sarcoma in, in acquired immunodeficiency syndrome, 561
 - mycobacteremia and, in AIDS, rapid diagnosis based on inclusions in peripheral blood smear and, 369
 - pediatric, normal, B-cell precursors in, 816
 - transplantation of, probe to repeat sequence of Y chromosome and, detection of host cells in peripheral blood and, 201
- Bone marrow aspirate, glycol methacrylate embedding and, 150
- Bordetella pertussis, lymphocytosis accompanying, morphologic and immunophenotypic assessment of, 809
- Breast, fibroadenoma of, carcinoma arising within, 614
- Breast cancer
- antigen release from, implications of, 271
 - correlation between *neu*-protein overexpression, histologic grade, lymph node involvement, and steroid receptor status in, 271
 - detection of Ki-67 proliferation rate in, correlation with clinical and pathologic features, 30
 - fixed embedded, automated immunohistochemical estrogen receptor in, 335
 - fluorescent cytochemical detection of estrogen and progesterone receptors in, in breast fine-needle aspirates, 35
 - matrix-producing, 623
 - metaplastic, 623
 - nuclear grading of, by image analysis, classification by multivariate and neural network analysis and, S29
 - with pseudosarcomatous metaplasia, 623
 - relationship between DNA ploidy status, expression of HER-2-*neu* oncogene, and presence of hormone receptors in, 271

- serum proteins synthesized by, prognostic value of, 835
- in vitro* labeling with bromodeoxyuridine and, commercial kit for, 41
- Breast-conserving therapy, carcinoma arising within fibroadenomas of breast and, 614
- Breast disease, proliferative, clinically occult, identification of, in women with family history of breast cancer, 157
- Breast tumors, mucocoele-like, 875
- Bromodeoxyuridine, *in vitro* labeling of breast carcinomas with, commercial kit for, 41
- Bronchoalveolar carcinoma, congenital cystic adenomatoid malformation and, 889
- Bronchoalveolar lavage
 - cytodiagnosis of *Pneumocystis carinii* in fluid and, Papanicolaou's stain and Gomori methenamine silver stain compared for, 583
 - lipid-laden macrophage index applied to specimens from, cytologic diagnosis of aspiration pneumonia by, 271
- B72.3, malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
- Bull's algorithm, moving average algorithm as quality control procedure and, Technicon System H6000 and, 218

C

- Calcitonin, thyroid medullary cancer and, 300
- Calcitonin gene-related peptide, thyroid medullary cancer and, 300
- Campylobacter pylori*, diagnostic methods for, 769
- Cancer. *See specific cancers and sites*
- Capillary electrophoresis, polymerase chain reaction-amplified DNA detection by, 271
- Carcinoembryonic antigen
 - in diagnosis of lung carcinoma, carcinomas metastatic to lung and pleura, and pleural malignant mesothelioma, 315
 - identification of malignant cells in serous effusions and, 867
 - malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
 - thyroid medullary cancer and, 300
- Carcinoids
 - of ampulla of Vater, 51
 - bronchopulmonary, typical and atypical, clinicopathologic and flow cytometric study of, 828
 - hepatic, primary, 172
 - ileal and appendiceal, histogenesis of, 271
- Carcinoma. *See also specific sites and types*
 - Arias-Stella reaction in fallopian tube epithelium and, 892
 - arising within fibroadenoma of breast, 614
 - with ascites, false-positive immunostaining of normal epithelia and, fluid preparations of antimelanoma monoclonal antibody HMB45 and, 454
- Cardiac myxoma, psammomatous melanotic schwannoma and, 484
- Carney's complex, psammomatous melanotic schwannoma and, 484
- CD2 antigen, hairy cell leukemia and, HTLV-I associated myelopathy in, after blood transfusion, 72
- CD45 antigen isoforms, surface and cytoplasmic expression of, in normal and malignant myeloid cell differentiation, 180
- CD45RA, surface and cytoplasmic expression of, in normal and malignant myeloid cell differentiation, 180
- CD45RO
 - immunostaining of paraffin-embedded tissues and, 188
 - surface and cytoplasmic expression of, in normal and malignant myeloid cell differentiation, 180
- Cell culture, enhanced isolation of influenza virus in conventional cell cultures and, by low-speed centrifugation from clinical specimens, 765
- Cell differentiation, normal and malignant, surface and cytoplasmic expression of CD45 antigen isoforms and, 180
- Cell lineage determination, in acute leukemias, myeloperoxidase mRNA detection for, 271
- Cerebrospinal fluid
 - acid-fast bacillus smear and culture and, 418
 - in children, hematopoietic elements in, 532
 - immunofixation to quantify β_2 transferrin in, to detect leakage of cerebrospinal fluid from skull injury, 271
 - Venereal Disease Research Laboratory testing and, 397
- Cervical adenocarcinoma, human papillomavirus types 16 and 18 in, 647
- Cervical carcinoma, nucleic acid hybridization for detection and typing of human papillomavirus and, 21
- Cervical dysplasia, nucleic acid hybridization for detection and typing of human papillomavirus and, 21
- Cervical lesions, detection of human papillomavirus DNA in biopsy specimens from, polymerase chain reaction and Southern blot hybridization for, 638
- Cervical smears, conventional and parallel monolayer, comparison of cytologic diagnoses on, 271
- Children
 - adenovirus encephalitis in, 271
 - adrenal cortical neoplasms in, clinicopathologic study with emphasis on prognostic factors and, 271
 - congenital cystic adenomatoid malformation in, bronchoalveolar carcinoma of lung and, 889
 - fine-needle aspiration biopsy in, 653
 - granular acute lymphoblastic leukemia in, laboratory correlates and prognostic significance of, 526
 - hematopoietic elements in cerebrospinal fluid in, 532
 - malignant peritoneal mesothelioma in, with long-term survival, 493
 - normal bone marrow in, B-cell precursors in, 816
 - prepubertal, human papillomavirus segregation patterns and, 467
- Chimerism, detection of host cells in peripheral blood and, of bone marrow transplant recipients, probe to repeat sequence of Y chromosome for, 201
- Chlamydia trachomatis*, in cervical specimens, comparison of Gen-Probe PACE 2 system, direct fluorescent-antibody, and cell culture for detecting, 578
- Chloroacetate esterase, acute myeloid, 567
- Chloroma, 567
 - granulocytic sarcoma presenting as, with acute paraparesis, in aleukemic patient, 228
- Cholesterol measurement, Monte Carlo simulation of split-sample assessment of performance of, 271
- Chondroid neoplasm, ossifying fibromyxoid tumor and, 142
- Chromosomal analysis, Muir-Torre syndrome and, 271
- Chromosomes
 - abnormalities of, t(11;14)(q13) in B-cell lymphomas and, 684
 - interphase cytogenetic analysis in diagnosis and study of neoplastic disorders and, S22
- Chronic myelogenous leukemia, platelet aggregation and, in platelet-rich plasma and whole blood, 82
- Cladosporium trichoides*, cerebral phaeohyphomycosis and, in liver transplant patient, 499
- Clear cell carcinoma, multilocular cystic renal cell carcinoma and, 633
- Clear cell cribriform hyperplasia, of prostate, immunohistochemical and DNA flow cytometric study of, 446
- Clinical correlation
 - bone marrow in HIV-related disease and, 63
 - detection of Ki-67 proliferation rate in breast cancer and, 30
- Clinical diagnosis, comparison of Gen-Probe PACE 2 system, direct flu-

- orscent-antibody, and cell culture for detecting *Chlamydia trachomatis* in cervical specimens and, 578
 Clonality, genotypic analysis of diffuse, mixed cell lymphomas and, 547
 Clonogenicity, of solid human tumor cells, effect of tissue disaggregation methods on, 271
 Clot-promoting reagent, preparation of serum for chemistry analyses using, 271
 Coagulation defects, platelet dysfunction in Noonan's syndrome and, 739
 Coagulation testing, measurement of activated partial thromboplastin time and, from capillary sample of whole blood, 222
 Collagen, platelet aggregation by, prevention by ascorbic acid, 271
 Colon, small cell carcinoma of, 315
 Colposcopy, in gynecologic malignancies, quality assurance correlations and, 271
 Computed tomography, in diagnosis of malignant lymphoma, 878
 Condyloma, nucleic acid hybridization for detection and typing of human papillomavirus and, 21
 Coombs' test, cefazidime-induced hemolysis with drug-dependent antibodies and, reactive by immune complex and drug absorption mechanisms, 393
 Coronary artery disease, severely angiographically assessed, serum apo-protein levels as indicators for, 597
 Coronary thrombosis, May-Hegglin anomaly and, 715
 Coulter STKS, field evaluation of, 207
 Coulter VCS, comparison with Technicon H-1 and 800-cell manual method for white blood cell differential counts, 381
 Creatine kinase cardiac isoenzyme
 comparison of diagnostic performance of three methods of measuring, 271
 mimicking CK MB on agarose gel electrophoresis, 753
 positive, without acute myocardial infarction, 271
 Cryptosporidiosis, correlative light and electron microscopy of, 271
 Cycloxygenase deficiency, platelet dysfunction in Noonan's syndrome and, 739
 Cystic carcinoma, renal cell, multilocular, 633
 Cytochrome, hematopoietic elements in cerebrospinal fluid in children and, 532
 Cytiagnosis, of *Pneumocystis carinii*, in bronchoalveolar lavage fluid, Papanicolaou's stain compared with Gomori methenamine silver stain for, 583
 Cytofluorometry, antisperm antibody detection using concurrent cytofluorometry and indirect immunofluorescence microscopy and, 242
 Cytogenetics, interphase cytogenetic analysis in diagnosis and study of neoplastic disorders and, 522
 Cytokeratin, S2
 malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
 as marker for trophoblastic tissue, 137
 poorly differentiated prostate carcinoma distinguished from granulomatous prostatitis and, immunohistochemistry and, 330
 Cytology
 aspiration pneumonia and, diagnosis by lipid-laden macrophage index applied to bronchoalveolar lavage specimens, 271
 ballistic injury and, 660
 conventional and parallel monolayer cervical smears and, comparison of diagnoses and, 271
 to distinguish hepatocellular carcinoma from nonneoplastic liver and, criteria for, 125
 DNA analysis in effusions and, by flow cytometry and image analysis, 6
 fine-needle aspiration. *See* Fine-needle aspiration cytology

- in gynecologic malignancies, quality assurance correlations and, 271
 identification of malignant cells in serous effusions and, 867
 monoclonal antibody 44-3A6 in cell blocks and, in diagnosis of lung carcinoma, carcinomas metastatic to lung and pleura, and pleural malignant mesothelioma and, 315
 mucocoele-like tumors of breast and, 875
 ovarian follicular cysts as source of false-positive diagnoses in, 271
 pediatric fine-needle aspiration biopsy and, 653
 slide preparation system for, 271
 Cytomegalovirus, commercial enzyme immunoassays for, 428
 Cytomegalovirus placentis, fetal inflammatory response to, immunohistochemical analysis of, 271
 Cytopenia, after treatment with recombinant human interleukin-3, 355
 Cytochrome, emergency, for malignant leukocytosis, 271
 Cytotoxic cells, human granzyme B as marker for, 271

D

- D-dimer, measurement in obstetric patients, diagnostic utility of, 271
 Decision analysis, S50
 Delta checks, relevance for error detection, in highly automated chemistry laboratories, 271
 Dematiaceous fungi, cerebral phaeohyphomycosis and, in liver transplant recipient, 499
 Deming regression, laboratory and clinical evaluation of white blood cell differential counts and, Coulter VCS, Technicon H-1, and 800-cell manual method compared for, 381
 Desmin, positive staining for, spindle cell pseudotumor attributable to *Mycobacterium avium-intracellulare* in AIDS and, 271
 Diabetes mellitus, portable blood glucose monitoring and, outcomes and, 112
 Diagnosis, S50
 cytiagnosis of *Pneumocystis carinii* in bronchoalveolar lavage fluid and, Papanicolaou's stain compared with Gomori methenamine silver stain for, 583
 laboratory, S50
 comparison of Gen-Probe PACE 2 system, direct fluorescent-antibody, and cell culture for detecting *Chlamydia trachomatis* in cervical specimens and, 578
 serodiagnosis of syphilis and, cerebrospinal fluid and, Venereal Disease Research Laboratory testing and, 397
 Diagnostic pathology, molecular pathology and diagnosis of infectious diseases and, S8
 Diarrhea, nosocomial, stool cultures and ova and parasite examinations in, prognosis and, 271
 Differential leukocyte count, laboratory and clinical evaluation of, Coulter VCS, Technicon H-1, and 800-cell manual method compared for, 381
 Direct fluorescent-antibody, for detecting *Chlamydia trachomatis* in cervical specimens, 578
 DNA
 detection in biopsy specimens from cervical lesions, polymerase chain reaction and Southern blot hybridization for, human papillomavirus and, 638
 human papillomavirus, detection on Papanicolaou's smears, by *in situ* hybridization, with biotinylated probes, 475
 polymerase chain reaction-amplified, capillary electrophoresis for detection of, 271
 serum hepatitis B virus, in seropositive and seronegative patients with normal liver function, polymerase chain reaction and, 591
 DNA analysis
 clear cell cribriform hyperplasia of prostate and, 446
 in Ewing's sarcoma, 271

- flow cytometric, of effusions, 2
- flow cytometry and image analysis of effusions and, 6
- malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
- of paraffin-embedded tissue, variation in reference cells for, 271
- DNA flow cytometry, in prostate cancer, prognostic significance of, 271
- DNA ploidy
 - effects of fixatives and fixation conditions on analysis of, 460
 - in esophageal squamous carcinoma, 844
 - heterogeneous, in primary and metastatic ovarian carcinoma, 271
 - relationship between DNA ploidy status, expression of HER-2-*neu* oncogene, and presence of hormone receptors in breast cancer and, 271
 - in tumors quantitated by image versus flow cytometry, 271
- DNA probes
 - for detecting *Chlamydia trachomatis* in cervical specimens, 578
 - interphase cytogenetic analysis in diagnosis and study of neoplastic disorders and, S22
- DNA sequences, identification in peripheral mononuclear cells, human papillomavirus and, 540
- Duplicate analyses, of prothrombin time and activated partial thromboplastin time assays, 77
- Dysmegakaryopoiesis, resembling acute megakaryoblastic leukemia, in acute myeloid leukemia, 556

E

- Efficiency, computer-assisted work station timing analysis of instrument labor efficiency and, 743
- Effusions
 - DNA image analysis of, 6
 - flow cytometric DNA analysis of, 2, 6
 - serous, identification of malignant cells in, 867
- Ehrlichiosis, expansion of immature thymic precursor cells in peripheral blood after acute marrow suppression and, 824
- Ektachem 700, computer-assisted work station timing analysis of instrument labor efficiency and, 743
- Electron microscopy
 - Arias-Stella reaction in fallopian tube epithelium and, 892
 - intraspinal neurothekeoma and, 511
 - light microscopy correlated with, intestinal giardiasis, cryptosporidiosis, and spirochetosis and, 271
 - liposarcoma of thyroid gland and, 675
 - ossifying fibromyxoid tumor and, 142
 - pediatric fine-needle aspiration biopsy and, 653
 - primary carcinoid tumor of liver and, 172
 - scanning, light microscopy and energy dispersive spectroscopy correlated with, pseudogout presenting as spinal masses and, 271
- Electrophoresis
 - agarose gel, creatine kinase isoenzyme band mimicking CK MB on, 753
 - capillary, polymerase chain reaction-amplified DNA detection by, 271
- EMA, as paraffin section marker for Reed-Sternberg cells, 271
- Encephalitis, adenovirus, pediatric, 271
- Endometrial carcinoma, hormone receptor assays in, biochemical and immunocytochemical, comparison of, 271
- Enzyme histochemistry, biopsy specimen preservation for, novel method for, 131
- Enzyme immunoassays
 - anti-delta EIA kit for detection of antibodies to hepatitis delta virus and, 240
 - for toxoplasma and cytomegalovirus antibodies, 428
- Enzymes, serum, in skeletal muscle diseases, 293, 402
- Ependymoma, metastatic small cell tumor of bone and, with 'true' rosettes and glial fibrillary acidic protein positivity, 166
- Epithelial membrane antigen
 - identification of malignant cells in serous effusions and, 867
 - malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
- Epstein-Barr virus, demonstration of genome by polymerase chain reaction, in lymphoepithelioma of stomach and parotid gland, 271
- Error detection, relevance of delta checks for, in highly automated chemistry laboratories, 271
- Esophagus
 - adenocarcinoma of, D-14 expression in, 271
 - Barrett's, D-14 expression in, 271
 - squamous carcinoma of, prognostic factors in, 844
- Estrogen receptors
 - assays of
 - automated immunohistochemical, in fixed embedded breast carcinomas, 335
 - immunohistochemical and biochemical, comparison and evaluation of scoring techniques and, 271
 - fluorescent cytochemical detection of, in breast fine-needle aspirates, 35
- Estrogens, infarction in focal nodular hyperplasia of liver and, 503
- Ewing's sarcoma
 - DNA analysis in, 271
 - metastatic small cell tumor of bone and, with 'true' rosettes and glial fibrillary acidic protein positivity, 166
- Exserohilum*, *in vitro* susceptibility patterns of clinical isolates of, phaeohyphomycosis and, 271

F

- Factor VIII, *in vivo* effect on activated partial thromboplastin time monitoring of heparin therapy and, 271
- Fallopian tube, Arias-Stella reaction in epithelium of, 892
- Febrile reactions, to transfusions
 - efficacy of leukopoor platelets for prevention of, 733
 - of platelets, 609
- Fecal concentration, of *Schistosoma mansoni* ova, 91
- Fetal lung profile, prediction of respiratory distress and, lamellar body number density and, 781
- Fetus
 - fetal inflammatory response to cytomegalovirus placentis and, immunohistochemical analysis of, 271
 - maturity of, rapid lamellar body count in assessment of, 778
 - venous anomaly of placenta and, 48
- Fever
 - febrile transfusion reaction and
 - efficacy of leukopoor platelets for prevention of, 733
 - platelet transfusions and, 609
 - of unknown origin, bone marrow biopsy in evaluation of, 271
- Fibroadenoma, of breast, carcinoma arising within, 614
- Fibromyxoid tumor, ossifying, 107
 - of soft parts, 142
- Filtration, efficacy of leukopoor platelets for prevention of febrile transfusion reactions and, 733
- Fine-needle aspiration
 - fluorescent cytochemical detection of estrogen and progesterone receptors in aspirates and, 35
 - of spindle-cell neoplasms, 271
 - submandibular gland specimen and, chronic sialadenitis with psammoma bodies mimicking neoplasia in, 884

- Fine-needle aspiration biopsy
to distinguish hepatocellular carcinoma from nonneoplastic liver and, criteria for, 125
pediatric, 653
- Fine-needle aspiration cytology
identification of clinically occult breast disease and, in women with family history of breast cancer, 157
liposarcoma of thyroid gland and, 675
- Fixation. *See also* Paraffin-embedded tissue
preservation of antigenic sites and, 271
- Fixation time, PCR amplification and, from paraffin-embedded tissues, 117
- Fixed-tissue lymphomas, A6 for immunostaining of paraffin-embedded tissues and, 188
- Flow cytometry
antisperm antibody detection using concurrent cytofluorometry and indirect immunofluorescence microscopy and, 242
B-cell precursors in normal pediatric bone marrow and, 816
bronchopulmonary carcinoids and, typical and atypical, 828
carcinomas with metaplasia and sarcomas of breast and, 623
DNA analysis and
of clear cell cribriform hyperplasia of prostate, 446
of effusions, 2
DNA analysis of effusions and, image analysis and, 6
DNA ploidy in tumors quantitated by, 271
malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
multilocular cystic renal cell carcinoma and, 633
ploidy and S-phase fraction analysis and, need for improvement in, 439
terminal deoxynucleotidyl transferase analysis by, 369
urine erythrocyte morphology analysis by, 257
- Fluorescence
cytochemical detection of estrogen and progesterone receptors in breast fine-needle aspirates and, 35
rapid microscopic detection of malaria parasites in blood smears and, permanently stained with aluminum and morin, 424
- Foam stability index, rapid lamellar body count in assessment of fetal maturity and, 778
- Focal nodular hyperplasia, of liver, infarction in, 503
- Follicular dendritic cells, in Hodgkin's disease, 194
- Follicular lymphomas, interleukin-2 and interferon-gamma production in, 55
- Formalin fixation, automated immunohistochemical estrogen receptor and, in fixed embedded breast carcinomas, 335
- Freeze-substitution, biopsy specimen preservation for histochemical and immunohistochemical analysis and, 131
- French-American-British morphologic criteria, laboratory correlates and prognostic significance of granular acute lymphoblastic leukemia in children and, 526
- G**
- Gardnarella vaginalis*, survival in human urine, 234
- Gas chromatography mass spectrometry, effect of bacteriuria on quantitation of benzoyllecgonine by, 271
- Gastritis, *Helicobacter pylori*, diagnostic methods for, 769
- Gastrointestinal tract, Hodgkin's lymphoma of, surgical pathology of, 794
- GC/MS, with selected ion monitoring, determination of serum nicotine concentration using, 271
- Gelatin particle agglutination, for human immunodeficiency virus antibody, 271
- Gene deletion, heavy chain, Southern blot analysis and, in Richter's syndrome, 571
- Gene rearrangement
acute myeloid leukemia and, 702
in diagnosis of lymphoma/leukemia, 347
immunophenotyping of non-Hodgkin's lymphomas and, in paraffin-embedded tissue sections, 517
- Genital diseases, identification of human papillomavirus DNA sequences in peripheral mononuclear cells and, 540
- Genital warts, human papillomavirus segregation patterns and, in prepubertal children and adults, 467
- Genotype, of diffuse, mixed cell lymphomas, 547
- Gen-Probe PACE 2 system, for detecting *Chlamydia trachomatis* in cervical specimens, 578
- Gestational trophoblastic neoplasia, in postmenopausal woman, 670
- Giardiasis, correlative light and electron microscopy of, 271
- Glomerulonephritis, IgA-IgM nephropathy and, 863
- Glycogen, survival of *Gardnarella vaginalis* in human urine and, 234
- Glycol methacrylate embedding, 150
- Gomori methenamine silver stain, for cytodagnosis of *Pneumocystis carinii* in bronchoalveolar lavage fluid, Papanicolaou's stain compared with, 583
- Gonorrhea, culture confirmation of, Meritek-GC and Identicult-Neisseria kits compared for, 271
- Granules, laboratory correlates and prognostic significance of granular acute lymphoblastic leukemia in children and, 526
- Granulocytic sarcoma, presenting as epidural mass, in aleukemic patient, 228
- Gravity sedimentation, fecal concentration of *Schistosoma mansoni* ova and, 91
- Gunshot wounds, cytologic manifestations of, 660
- Gynecologic malignancies. *See also* specific malignancies
quality assurance correlations in cytologic, histopathologic, and colposcopic examination and, 271
- H**
- Hairy cell leukemia, HTLV-I associated myelopathy in, after blood transfusion, 72
- Hamartoma, renal, leiomyomatous, urothelial, 481
- Haptens, ceftazidime-induced hemolysis with drug-dependent antibodies and, reactive by immune complex and drug absorption mechanisms, 393
- Head injury, ballistic, cytologic manifestations of, 660
- Helicobacter pylori*
comparison of four methods for detection of, 271
diagnostic methods for, 769
- Hemangiopericytoma, of spleen, 680
- Hematology, quality control and, moving average algorithm and, Technicon System H6000 and, 218
- Hematopoiesis, after treatment with recombinant human interleukin-3, 355
- Hematopoietic elements, in cerebrospinal fluid in children, 532
- Hematuria
analysis of urine erythrocyte morphology and, hematologic flow cytometer and microscopic method for, 257
IgA-IgM nephropathy and, 863
- Hemianopia, lymphocytic hypophysitis and pulmonary sarcoidosis and, 506
- Hemolysis, ceftazidime-induced, with drug-dependent antibodies, reactive by immune complex and drug absorption mechanisms, 393
- Hemolytic anemia
ceftazidime-induced hemolysis with drug-dependent antibodies and,

- reactive by immune complex and drug absorption mechanisms, 393
- HTLV-I associated myelopathy in, after blood transfusion, 72
- Hemolytic transfusion reaction, myoglobinuria mimicking, 271
- Hemorrhagic diathesis, in myelofibrosis, vascular proliferation as cause of, 564
- Heparin therapy, monitoring of
 measurement of activated partial thromboplastin time and, from capillary sample of whole blood, 222
in vivo effect of Factor VIII on activated partial thromboplastin time and, 271
- Hepatitis B virus
 polymerase chain reaction assay for detection of, 442
 serum DNA, in seropositive and seronegative patients with normal liver function, 591
- Hepatitis C virus
 antibody to, lack of predictiveness for characteristic subset of patients with chronic hepatitis, 271
 prevalence in human intravenous immunoglobulins, 271
- Hepatitis delta virus, anti-delta EIA kit for detection of antibodies to, 240
- Hepatocarcinogenesis, argyrophilic nucleolar organizer regions and alpha-fetoprotein in adenomatous hyperplasia and, in human cirrhotic livers, 850
- Hepatocellular carcinoma, distinguishing from nonneoplastic liver, cytologic criteria for, 125
- HER-2-*neu* oncogene, relationship between DNA ploidy status and presence of hormone receptors in breast cancer and, 271
- Herpes simplex virus, lymphadenitis and, 709
- Herpesviridae, herpes simplex lymphadenitis and, 709
- Herpetic infection, Arias-Stella reaction in fallopian tube epithelium and, 892
- Histiocytosis, A6 for immunostaining of paraffin-embedded tissues and, 188
- Histogenesis, of ileal and appendiceal carcinoids, 271
- Histogram variability, effects of fixatives and fixation conditions on DNA ploidy analysis and, 460
- Histology
 in childhood diffuse large cell lymphoma, clinical significance of, 787
 correlation between *neu*-protein overexpression, histologic grade, lymph node involvement, and steroid receptor status in breast cancer and, 271
 in esophageal squamous carcinoma, 844
- Histopathology
 in gynecologic malignancies, quality assurance correlations and, 271
 of lung cancer, in nonsmoking women, 271
- HMB45, fluid preparations of, false-positive immunostaining of normal epithelia and carcinomas with ascites and, 454
- Hodgkin's disease
 follicular dendritic cells in, 194
 gastrointestinal, surgical pathology of, 794
 in monocytoid B cell clusters, 802
- Hormone receptors. *See* Estrogen receptors; Steroid hormone receptors
 fluorescent cytochemical detection of, in breast fine-needle aspirates, 35
 relationship between DNA ploidy status, expression of HER-2-*neu* oncogene and presence of hormone receptors in breast cancer and, 271
- HTLV-I associated myelopathy, after blood transfusion, in hairy cell leukemia, 72
- Human experimentation, bartonellosis and, S58
- Human granzyme B, as immunohistochemical marker for cytotoxic cells, 271
- Human immunodeficiency virus
 antibody to, gelatin particle agglutination for, 271
 enteropathy and, small intestinal steatosis in, 271
 intranodal leiomyoma and, 858
 molecular pathology and diagnosis of infectious diseases and, S8
 mycobacteremia and, rapid diagnosis based on inclusions in peripheral blood smear and, 369
 peripheral T-cell lymphomas in, 271
 sputum smears and, significance of mycobacteria seen on, 271
- Human immunodeficiency virus-related disease, bone marrow in, morphology and clinical correlation of, 63
- Human papillomavirus
 detection and typing of, nucleic acid hybridization assays for, 21
 detection of DNA and
 in biopsy specimens from cervical lesions, polymerase chain reaction and Southern blot hybridization for, 638
 on Papanicolaou's smears and, by *in situ* hybridization, with biotinylated probes, 475
 identification of DNA sequences in peripheral mononuclear cells and, 540
 segregation patterns and, in genital and nongenital warts, in prepubertal children and adults, 467
 types 16 and 18, in adenocarcinoma of uterine cervix, 647
- Human purine nucleoside phosphorylase gene, retrovirus vectors transducing, 271
- Human T-cell leukemia virus type I, proviral sequences of, from fixed tissues of seropositive patients, 536
- Humoral study, thyroid medullary cancer and, 300
- Hypoalbuminemia, prediction of free phenytoin levels and, based on [total phenytoin]/[albumin] ratios, 253
- Hypophysitis, lymphocytic, pulmonary sarcoidosis and, 506
- Hypopituitarism, lymphocytic hypophysitis and pulmonary sarcoidosis and, 506
- Hypothyroidism, necrotizing, 489

I

- Identicult-Neisseria kit, Meritek-GC kit compared with, for culture confirmation of gonorrhea, 271
- IgA nephropathy, 863
- IgG subclass, red cell survival studies with anti-Tc^a and, 87
- IgH chain gene rearrangement, hairy cell leukemia and, HTLV-I associated myelopathy in, after blood transfusion, 72
- IgM nephropathy, 863
- Ileal carcinoids, histogenesis of, 271
- Iliac crest biopsy, glycol methacrylate embedding and, 150
- Image analysis, S50
 of effusions, DNA analysis and, 6
 nuclear grading of breast carcinoma by, classification by multivariate and neural network analysis and, S29
- Image cytometry, DNA ploidy in tumors quantitated by, 271
- Immune hemolytic reaction, babesiosis and, 774
- Immunocytochemistry, detection of Ki-67 proliferation rate in breast cancer and, 30
- Immunocytochemistry
 false-positive immunostaining of normal epithelia and carcinomas with ascites and, fluid preparations of antimelanoma monoclonal antibody HMB45 and, 454
 identification of malignant cells in serous effusions and, 867
 intranodal leiomyoma and, 858
 lymphocytosis accompanying *Bordetella pertussis* infection and, morphologic and immunophenotypic assessment of, 809
 pediatric fine-needle aspiration biopsy and, 653

- Immunoenzyme techniques, in diagnosis of malignant lymphoma, 878
- Immunofixation, to quantify β_2 transferrin in cerebrospinal fluid, to detect leakage of cerebrospinal fluid from skull injury, 271
- Immunofluorescence
- detection of *Treponema pallidum* in stillborns and, associated with positive maternal syphilis serology, 271
 - toxoplasma and cytomegalovirus antibodies assays and, 428
- Immunofluorescence microscopy, antisperm antibody detection using concurrent cytofluorometry and indirect immunofluorescence microscopy and, 242
- Immunoglobulin gene deletion, Southern blot analysis and, in Richter's syndrome, 571
- Immunoglobulins
- acute myeloid leukemia and, 702
 - creatine kinase isoenzyme band mimicking CK MB on agarose gel electrophoresis and, 753
 - expression in B-cell lymphomas, 684
 - gene rearrangement in diagnosis of lymphoma/leukemia and, 347
 - immunophenotyping of non-Hodgkin's lymphomas and, in paraffin-embedded tissue sections, 517
 - intravenous, prevalence of non-A, non-B hepatitis/hepatitis C virus antibody in, 271
- Immunohematology, forensic, Munchausen syndrome by proxy documented by discrepant blood typing and, 232
- Immunohistochemistry
- automated immunohistochemical estrogen receptor and, in fixed embedded breast carcinomas, 335
 - biopsy specimen preservation for, novel method for, 131
 - carcinomas with metaplasia and sarcomas of breast and, 623
 - clear cell cribriform hyperplasia of prostate and, 446
 - cytokeratins and soft tissue sarcomas and, S2
 - estrogen receptor assays and, comparison and evaluation of scoring techniques with biochemical methods and, 271
 - fetal inflammatory response to cytomegalovirus placentis and, 271
 - human granzyme B as marker for cytotoxic cells and, 271
 - intrasplenic neurothekeoma and, 511
 - Leu-22 and UCHL-1 as markers for peripheral T-cell lymphomas and, 696
 - liposarcoma of thyroid gland and, 675
 - malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
 - neuroendocrine carcinoma of Ampulla of Vater and, 51
 - ossifying fibromyxoid tumor and, 142
 - poorly differentiated prostate carcinoma distinguished from granulomatous prostatitis and, 330
 - primary carcinoid tumor of liver and, 172
 - thyroid medullary cancer and, 300
- Immunoperoxidase, immunoglobulin expression in B-cell lymphomas and, 684
- Immunophenotype
- in childhood diffuse large cell lymphoma, clinical significance of, 787
 - genotypic analysis of diffuse, mixed cell lymphomas and, 547
 - laboratory correlates and prognostic significance of granular acute lymphoblastic leukemia in children and, 526
 - lymphocytosis accompanying *Bordetella pertussis* infection and, 809
 - non-Hodgkin's lymphomas and, in paraffin-embedded tissue sections, 517
- Immunoreactivity, primary carcinoid tumor of liver and, 172
- Immunostaining, of paraffin-embedded tissue, A6 for, 188
- Immunosuppression
- bartonellosis and, S58
 - cerebral phaeohyphomycosis and, in liver transplant recipient, 499
- Immunoturbidimetric assay, of serum prealbumin, with centrifugal analyzer, 271
- Infarction, focal nodular hyperplasia of liver and, 503
- Infection. *See also specific infections*
- bacterial, bartonellosis and, S58
 - hematopoietic elements in cerebrospinal fluid in children and, 532
- Infertility, antisperm antibody detection using concurrent cytofluorometry and indirect immunofluorescence microscopy and, 242
- Influenza virus, enhanced isolation in conventional cell cultures, by low-speed centrifugation from clinical specimens, 765
- Informatics, management informatics rotation for pathology residents and, S38
- Inhibitors, mixing study reagents and dilution effect in lupus anticoagulant testing and, 408
- In situ* hybridization
- detection of host cells in peripheral blood and, of bone marrow transplant recipients, probe to repeat sequence of Y chromosome for, 201
 - detection of human papillomavirus DNA on Papanicolaou's smears by, with biotinylated probes, 475
 - interleukin-2 and interferon-gamma production in follicular lymphomas and, 55
 - interphase cytogenetic analysis in diagnosis and study of neoplastic disorders and, S22
 - nonisotopic, rapid diagnosis of Legionella infection by, 719
- Instrument selection, computer-assisted work station timing analysis of instrument labor efficiency and, 743
- Insulin, proteolytic inhibitory action of, zinc and, 271
- Interferon-gamma, in follicular lymphomas, production of, 55
- Interleukin-2, in follicular lymphomas, production of, 55
- Interleukin-3, recombinant, bone marrow findings after treatment with, 355
- Intermediate filaments, primary carcinoid tumor of liver and, 172
- Interphase cytogenetic analysis, in diagnosis and study of neoplastic disorders, S22
- Irradiation
- effect on aging stored red blood cells, 271
 - effect on freshly collected stored red blood cells, 271
- Isoenzyme, of creatine kinase. *See* Creatine kinase cardiac isoenzyme
- Isoenzyme determinations, elevated lactate dehydrogenase and, diagnostic utility of, 271
- Isolation, of influenza virus in conventional cell cultures, by low-speed centrifugation from clinical specimens, 765

K

- Kaposi's sarcoma, in bone marrow, in acquired immunodeficiency syndrome, 561
- Kidney disease
- lectin probes in study of, 271
 - multicystic, multilocular cystic renal cell carcinoma and, 633
- Ki-67 monoclonal antibody, detection of Ki-67 proliferation rate in breast cancer and, 30
- Koilocytic changes, detection of human papillomavirus DNA by *in situ* hybridization on Papanicolaou's smears and, with biotinylated probes, 475

L

- L-26, as paraffin section marker for Reed-Sternberg cells, 271
- Labor, computer-assisted work station timing analysis of instrument labor efficiency and, 743

- Laboratory diagnosis, S50
 comparison of Gen-Probe PACE 2 system, direct fluorescent-antibody, and cell culture for detecting *Chlamydia trachomatis* in cervical specimens and, 578
- Laboratory information system, for blood usage review, 389
- Laboratory management
 computer-assisted work station timing analysis of instrument labor efficiency and, 743
 management informatics rotation for pathology residents and, S38
- Lactate, plasma, rapid analysis in stat laboratory, 271
- Lactate dehydrogenase, elevated, diagnostic utility of isoenzyme determinations and, 271
- Lamellar body
 number density of, prediction of respiratory distress and, 781
 rapid count of, in assessment of fetal maturity, 778
- Large cell lymphoma, diffuse, in children, clinical significance of histology and immunophenotype in, 787
- Large intestine, small cell carcinomas of, 315
- LCA, as paraffin section marker for Reed-Sternberg cells, 271
- Lectin probes, in study of kidney disease, 271
- Legionella infection, rapid diagnosis of, by nonisotopic *in situ* hybridization method, 719
- Leiomyoma
 intranodal, 858
 vascular, 858
- Lethicin/sphingomyelin ratio, rapid lamellar body count in assessment of fetal maturity and, 778
- Leu-22, as marker for peripheral T-cell lymphomas, 696
- Leukemia
 acute, cell lineage determination in, myeloperoxidase mRNA detection and, 271
 acute megakaryoblastic, dysmegakaryopoiesis resembling, in acute myeloid leukemia, 556
 acute myeloid
 dysmegakaryopoiesis resembling acute megakaryoblastic leukemia in, 556
 gene rearrangement studies and multiparameter analysis of, 702
 granulocytic sarcoma and, 567
 A6 for immunostaining of paraffin-embedded tissues and, 188
 analysis of terminal deoxynucleotidyl transferase by flow cytometry and, 369
 gene rearrangements in diagnosis of, 347
 hematopoietic elements in cerebrospinal fluid in children and, 532
 T-cell, adult, detection of proviral sequences from fixed tissues of seropositive patients and, 536
- Leukemoid reaction, lymphocytic, expansion of immature thymic precursor cells in peripheral blood after acute marrow suppression and, 824
- Leukocytes
 in ocular crystalline dystrophy, ultrastructural morphology of, 271
 paraffin-embedded, antibodies marking, 607
 platelets poor in, efficacy for prevention of febrile transfusion reactions, 733
- Leukocytosis, malignant, emergency cytochemical reduction for, 271
- Leu-M1
 in diagnosis of lung carcinoma, carcinomas metastatic to lung and pleura, and pleural malignant mesothelioma, 315
 malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
 as paraffin section marker for Reed-Sternberg cells, 271
- Leu-19 reactivity, in neuroendocrine neoplasms, 271
- Lewis X, as paraffin section marker for Reed-Sternberg cells, 271
- Light microscopy
 Arias-Stella reaction in fallopian tube epithelium and, 892
 electron microscopy correlated with, intestinal giardiasis, cryptosporidiosis, and spirochetosis and, 271
 scanning microscopy and energy dispersive spectroscopy correlated with, pseudogout presenting as spinal masses and, 271
- Lipid-laden macrophage index, applied to bronchoalveolar lavage specimens, cytologic diagnosis of aspiration pneumonia by, 271
- Liposarcoma, of thyroid gland, fine-needle aspiration cytology, immunohistology, and ultrastructure and, 675
- Liver
 cirrhotic, adenomatous hyperplasia in, argyrophilic nucleolar organizer regions and alpha-fetoprotein in, 850
 focal nodular hyperplasia of, infarction in, 503
 hepatocellular carcinoma and, distinguishing from nonneoplastic liver, cytologic criteria for, 125
 primary carcinoid tumor of, 172
 transplantation of, cerebral phaeohyphomycosis and, 499
- Liver disease, serum hepatitis B virus DNA in seropositive and seronegative patients with normal liver function and, 591
- Lung
 carcinomas metastatic to, monoclonal antibody 44-3A6 in diagnosis of, 315
 rapid diagnosis of Legionella infection and, by nonisotopic *in situ* hybridization method, 719
- Lung cancer
 monoclonal antibody 44-3A6 in diagnosis of, 315
 in nonsmoking women, histopathology of, 271
 small cell, morphometric study comparing nuclear diameters of small cell lung cancer to lymphocytes and, 271
- Lupus anticoagulant testing, mixing study reagents and dilution effect in, 408
- Lymphadenitis, necrotizing, herpes simplex, 709
- Lymph nodes
 biopsy of, glycol methacrylate embedding and, 150
 correlation between *neu*-protein overexpression, histologic grade, lymph node involvement, and steroid receptor status in breast cancer and, 271
 intranodal leiomyoma and, 858
 intrathoracic, infection by *Pneumocystis carinii*, 271
- Lymphoblastic leukemia, acute, granular, in children, laboratory correlates and prognostic significance of, 526
- Lymphocytes, with cleaved or convoluted nuclei, lymphocytosis accompanying *Bordetella pertussis* infection and, 809
- Lymphocytosis, accompanying *Bordetella pertussis* infection, morphologic and immunophenotypic assessment of, 809
- Lymphoepithelioma, of stomach and parotid gland, with Epstein-Barr viral genome demonstrated by polymerase chain reactions, 271
- Lymphoid tissue, cellular, as sample source for Southern molecular analysis, 271
- Lymphokines, in follicular lymphomas, production of, 55
- Lymphoma
 B-cell
 immunoglobulin expression in, 684
 t(11;14)(q13;q22) in, 684
 follicular, t(11;14)(q13;q22) in, 684
 gene rearrangements in diagnosis of, 347
 Hodgkin's, gastrointestinal, surgical pathology of, 794
 lymphocytic, intermediate, t(11;14)(q13;q22) in, 684
 malignant
 diffuse, mixed cell, genotypic analysis of, 547
 herpes simplex lymphadenitis and, 709
 stereotactic brain biopsy in diagnosis of, 878

- non-Hodgkin's
diffuse, in children, clinical significance of histology and immunophenotype in, 787
immunophenotyping of, in paraffin-embedded tissue sections, 517
Leu-22 and UCHL-1 as markers for, 696
My4 antibody staining and, 363
- T-cell
adult, detection of proviral sequences from fixed tissues of seropositive patients and, 536
Leu-22 and UCHL-1 as markers for, 696
peripheral, in HIV-infected patients, 271
- Lysozyme, poorly differentiated prostate carcinoma distinguished from granulomatous prostatitis and, immunohistochemistry and, 330
- ### M
- Malaria, rapid microscopic detection of parasites in blood smears and, permanent stained with aluminum and morin, 424
- Markers, as prognostic indicators, in medullary thyroid carcinoma, 297
- Mass spectrometry, gas chromatography, effect of bacteriuria on quantitation of benzoylgonine by, 271
- May-Hegglin anomaly, coronary thrombosis and, 715
- Megakaryocytes, dysmegakaryopoiesis resembling acute megakaryoblastic leukemia and, in acute myeloid leukemia, 556
- Melanin, occurrence in pheochromocytoma, 271
- Melanoma
cutaneous, clinical stage I, prognostic factors in, 271
marker for, false-positive immunostaining of normal epithelia and carcinomas with ascites and, fluid preparations of antimelanoma monoclonal antibody HMB45 and, 454
- Meningitis, cerebrospinal fluid and, acid-fast bacillus smear and culture and, 418
- Meritek-GC kit, Identicult-Neisseria kit compared with, for culture confirmation of gonorrhea, 271
- Mesothelioma
malignant, pleural, monoclonal antibody 44-3A6 in diagnosis of, 315
peritoneal, malignant, in childhood, with long-term survival, 493
- Metaplasia, of breast, carcinomas with, 623
- Microbiology, pediatric fine-needle aspiration biopsy and, 653
- Microbiology transport systems, comparison of, 271
- Microparticle enzyme immunoassay, prolactin concentration and, radioimmunoassay compared with, 271
- Microscopy. *See also* Electron microscopy; Light microscopy
analysis of urine erythrocyte morphology and, 257
immunofluorescence, antisperm antibody detection using concurrent cytofluorometry and indirect immunofluorescence microscopy and, 242
rapid detection of malaria parasites in blood smears and, permanently stained with aluminum and morin, 424
- Microwave, glycol methacrylate embedding and, 150
- Mixing studies, mixing study reagents and dilution effect in lupus anticoagulant testing and, 408
- Molecular probes, diagnosis of infectious diseases and, S8
- Monoclonal antibodies
44-3A6, in cell blocks, in diagnosis of lung carcinoma, carcinomas metastatic to lung and pleura, and pleural malignant mesothelioma, 315
HMB45, fluid preparations of, false-positive immunostaining of normal epithelia and carcinomas with ascites and, 454
Leu-22 and UCHL-1, as markers for peripheral T-cell lymphomas, 696
- Monoclonality, for initial serum screening, objective and sensitive criteria of, 271
- Monocyte monolayer assay, red cell survival studies with anti-Tc^a and, 87
- Monocytoid B cells, Hodgkin's disease in clusters of, 802
- Mononuclear cells, in peripheral blood, identification of human papillomavirus DNA sequences in, 540
- Morin, rapid microscopic detection of malaria parasites in blood smears and, permanently stained with aluminum and morin, 424
- Morphology, of *Blastocystis hominis*, 271
- Morphometry, S50
histogenesis of ileal and appendiceal carcinoids and, 271
small cell lung cancer and, nuclear diameters of small cell lung cancer compared to lymphocytes and, 271
- Mucoepidermoid cancer, papillary carcinoma of thyroid and, 175
- Mucosubstance, sulfated, nonsulfated, and neutral, trichrome staining method for, 271
- Muir-Torres syndrome, chromosomal analysis and, 271
- Munchausen syndrome, discrepant blood typing and, 232
- Muscle disease, chronic, serum enzyme alterations in, 402
- Muscle injury, ballistic, cytologic manifestations of, 660
- My4 antibody, non-Hodgkin's lymphoma and, 363
- Mycobacteria, in sputum smears, in human immunodeficiency virus, significance of, 271
- Mycobacterium avium-intracellulare*, spindle cell pseudotumor attributable to, in AIDS, positive staining for desmin and, 271
- Mycobacterium avium-intracellulare* complex, in AIDS, rapid diagnosis based on inclusions in peripheral blood smear and, 369
- Mycobacterium tuberculosis*, cerebrospinal fluid and, acid-fast bacillus smear and culture and, 418
- Myelodysplasia, dysmegakaryopoiesis resembling acute megakaryoblastic leukemia and, in acute myeloid leukemia, 556
- Myelofibrosis
hemorrhagic diathesis in, vascular proliferation as cause of, 564
idiopathic, platelet aggregation and, in platelet-rich plasma and whole blood, 82
- Myeloperoxidase mRNA detection, cell lineage determination in acute leukemias and, 271
- Myeloproliferative disorders, platelet aggregation and, in platelet-rich plasma and whole blood, 82
- Myocardial infarction, creatine kinase isoenzyme band mimicking CK MB on agarose gel electrophoresis and, 753
- Myoglobulinuria, hemolytic transfusion reaction mimicked by, 271
- Myxoma
nerve sheath, 511
ovarian, 340
- ### N
- Neck tumors, liposarcoma of thyroid gland and, fine-needle aspiration cytology, immunohistology, and ultrastructure and, 675
- Necrosis, Hodgkin's disease in monocytoid B cell clusters and, 802
- Neoplasia. *See also specific sites and types of neoplasia*
interphase cytogenetic analysis in diagnosis and study of, S22
- Nephropathy, IgA-IgM, 863
- Nerve sheath
myxoma of, 511
ossifying fibromyxoid tumor and, 142
- Nervous system neoplasms, stereotactic brain biopsy in diagnosis of, 878
- neu*-protein, overexpression of, correlation between *neu*-protein overexpression, histologic grade, lymph node involvement, and steroid receptor status in breast cancer and, 271
- Neural networks, nuclear grading of breast carcinoma by image analysis and, S29
- Neuraminidase, bone-like variant of alkaline phosphatase and, 749

- Neuroectodermal tumor, primitive, metastatic small cell tumor of bone and, with 'true' rosettes and glial fibrillary acidic protein positivity, 166
- Neuroendocrine carcinoma, of ampulla of Vater, 51
- Neuroendocrine neoplasms, anti-CD56 reactivity in, 271
- Neuroepithelioma, metastatic small cell tumor of bone and, with 'true' rosettes and glial fibrillary acidic protein positivity, 166
- Neuron-specific enolase, thyroid medullary cancer and, 300
- Neurosecretory granules, primary carcinoid tumor of liver and, 172
- Neurosyphilis, cerebrospinal fluid and, Venereal Disease Research Laboratory testing and, 397
- Neurothekeoma, intraspinal, 511
- Nicotine, determination of serum nicotine concentration and, solid-phase extraction and GC/MS with selected ion monitoring for, 271
- Nodular fasciitis, papillary thyroid carcinoma with exuberant nodular fasciitis-like stroma and, 309
- Non-A, non-B hepatitis virus antibody, prevalence in human intravenous immunoglobulins, 271
- Non-Hodgkin's lymphoma
diffuse, in children, clinical significance of histology and immunophenotype in, 787
immunophenotyping of, in paraffin-embedded tissue sections, 517
Leu-22 and UCHL-1 as markers for, 696
My4 antibody staining and, 363
- Noonan's syndrome, platelet dysfunction in, 739
- Norepinephrine, platelet aggregation by, prevention by ascorbic acid, 271
- Nuclear grading, of breast carcinoma, by image analysis, classification by multivariate and neural network analysis and, S29
- Nucleic acid hybridization, for detection and typing of human papillomavirus, 21
- Nucleoli, morphologic characteristics of, in differential diagnosis of well-differentiated prostatic adenocarcinoma, 271

O

- Obstetric patients, D-dimer measurement in, diagnostic utility of, 271
- Ocular crystallizing dystrophy, ultrastructural morphology of leukocytes in, 271
- Ossifying fibromyxoid tumor, 107
of soft parts, 142
- Ova concentration, of *Schistosoma mansoni*, in feces, 91
- Ova examinations, in nosocomial diarrhea, prognosis and, 271
- Ovarian carcinoma, primary and metastatic, heterogeneous DNA ploidy in, 271
- Ovarian follicular cysts, as source of false-positive diagnoses in ovarian cytology, 271
- Ovarian myxoma, 340
- Ovarian sarcoma, 340

P

- Papanicolaou's stain
for cytodiagnosis of *Pneumocystis carinii* in bronchoalveolar lavage fluid, Gomori methenamine silver stain compared with, 583
detection of human papillomavirus DNA by *in situ* hybridization and, with biotinylated probes, 475
- Papillary carcinoma, thyroid
with mucoepidermoid features, 175
variant of, with exuberant nodular fasciitis-like stroma, 309
- Pappenheimer bodies, babesiosis and, 774
- Paraffin-embedded tissue
A6 for immunostaining of, 188
automated immunohistochemical estrogen receptor and, in fixed embedded breast carcinomas, 335
detection of human T-cell leukemia virus type I proviral sequences from, 536
DNA analysis of, variation in reference cells for, 271
effects of fixatives and fixation conditions on DNA ploidy analysis and, 460
immunophenotyping of non-Hodgkin's lymphomas and, 517
Leu-22 and UCHL-1 as markers for peripheral T-cell lymphomas and, 696
leukocytes and, antibodies marking, 607
PCR amplification and, effects of fixative and fixation time on, 117
preservation of antigenic sites in, 271
- Paraffin section markers, for Reed-Sternberg cells
comparative study of L-26, UCHL-1, LCA, EMA, and S 100 and, 271
Lewis X and Leu M1 staining compared and, 271
- Paramax B6100, computer-assisted work station timing analysis of instrument labor efficiency and, 743
- Paranuclear clearing, primary carcinoid tumor of liver and, 172
- Parasite examinations, in nosocomial diarrhea, prognosis and, 271
- Parotid gland, lymphoepithelioma of, with Epstein-Barr viral genome demonstrated by polymerase chain reactions, 271
- Pathology, management informatics rotation for pathology residents and, S38
- PCR amplification, from paraffin-embedded tissues, effects of fixative and fixation time and, 117
- Pentamidine, aerosolized, widespread dissemination of *Pneumocystis carinii* infection and, AIDS and, 96
- Peptic ulcer, diagnostic methods for, 769
- Peripheral blood
expansion of immature thymic precursor cells in, after acute bone marrow suppression, 824
mononuclear cells of, identification of human papillomavirus DNA sequences in, 540
- Peritoneum, malignant peritoneal mesothelioma in childhood and, with long-term survival, 493
- PGI₂, serologic characterization of Rocky Mountain spotted fever and, antibodies reactive with endothelial cells and phospholipids and factors altering protein C activation and prostacyclin secretion and, 725
- Phaeohyphomycosis
cerebral, in liver transplant recipient, 499
in vitro susceptibility patterns of clinical isolates of *Bipolaris* and *Exserohilum* and, 271
- Pheochromocytoma, occurrence of melanin in, 271
- Phosphatidyl glycerol, rapid lamellar body count in assessment of fetal maturity and, 778
- Phospholipids, prediction of respiratory distress and, lamellar body number density and, 781
- Physical training program, effect on serum alanine aminotransferase, 271
- Pituitary biopsy, lymphocytic hypophysitis and pulmonary sarcoidosis and, 506
- Placenta
cytomegalovirus infection of, fetal inflammatory response to, immunohistochemical analysis of, 271
venous anomaly of, 48
- Plasma cell dyscrasias, increased serum α_2 fraction as indicator of, 271
- Plasma lactate, rapid analysis in stat laboratory, 271
- Plastic embedding, biopsy specimen preservation for histochemical and immunohistochemical analysis and, 131
- Plate centrifugation, enhanced isolation of influenza virus in conventional

- cell cultures and, by low-speed centrifugation from clinical specimens, 765
- Platelet aggregation**
by norepinephrine, collagen, ADP, and ristocetin, prevention by ascorbic acid, 271
in platelet-rich plasma and whole blood, myeloproliferative disorders and, 82
- Platelet function**
coronary thrombosis in patient with May-Hegglin anomaly and, 715
in Noonan's syndrome, 739
- Platelet mass, coronary thrombosis in patient with May-Hegglin anomaly and, 715**
- Platelet morphology, coronary thrombosis in patient with May-Hegglin anomaly and, 715**
- Platelets, leukopenic, efficacy for prevention of febrile transfusion reactions, 733**
- Platelet transfusions, febrile reactions to, 609**
- Pleura**
carcinomas metastatic to, monoclonal antibody 44-3A6 in diagnosis of, 315
malignant mesothelioma of, monoclonal antibody 44-3A6 in diagnosis of, 315
- Ploidy. See also DNA ploidy**
analysis of terminal deoxynucleotidyl transferase by flow cytometry and, 369
flow cytometric analysis of, need for improvement in, 439
- Pneumocystis carinii* infection**
cytodiagnosis in bronchoalveolar lavage fluid, Papanicolaou's stain and Gomori methenamine silver stain compared for, 583
intrathoracic lymph node infection by, 271
presenting as necrotizing thyroiditis and hypothyroidism, 489
widespread dissemination of, aerosolized pentamidine treatment and, AIDS and, 96
- Pneumocystosis, extrapulmonary, *Pneumocystis carinii* pneumonia presenting as necrotizing thyroiditis and hypothyroidism and, 489**
- Pneumonia**
aspiration, cytologic diagnosis of, by lipid-laden macrophage index applied to bronchoalveolar lavage specimens, 271
Pneumocystis carinii
presenting as necrotizing thyroiditis and hypothyroidism, 489
widespread dissemination of, aerosolized pentamidine treatment and, AIDS and, 96
- Polycythemia vera, platelet aggregation and, in platelet-rich plasma and whole blood, 82**
- Polymerase chain reaction**
Epstein-Barr virus genome demonstrated by, in lymphoepithelioma of stomach and parotid gland, 271
genotypic analysis of diffuse, mixed cell lymphomas and, 547
hepatitis B virus detection by, 442
human papillomavirus DNA detection in biopsy specimens from cervical lesions and, 638
human T-cell leukemia virus type I proviral sequence detection and, from fixed tissues of seropositive patients, 536
identification of human papillomavirus DNA sequences in peripheral mononuclear cells and, 540
serum hepatitis B virus DNA in seropositive and seronegative patients with normal liver function and, 591
- Polymerase chain reaction-amplified DNA, capillary electrophoresis for detection of, 271**
- Portable blood glucose monitoring**
accuracy of, effect of glucose level and prandial state on, 247
diabetic patients and, outcomes of, 112
- Prealbumin, serum, immunoturbidimetric assay of, with centrifugal analyzer, 271**
- Pregnancy, amniotic fluid isolation of *Ureaplasma urealyticum* and, adverse outcome and, 271**
- Progesterone receptors, fluorescent cytochemical detection of, in breast fine-needle aspirates, 35**
- Prognostic factors**
in cutaneous melanoma, clinical stage I, 271
DNA flow cytometry in prostate cancer and, 271
in esophageal squamous carcinoma, 844
granular acute lymphoblastic leukemia in children and, 526
in medullary thyroid carcinoma, markers as, 297
in nosocomial diarrhea, stool cultures and ova and parasite examinations and, 271
in pediatric adrenal cortical neoplasms, 271
prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Prolactin, comparison of concentrations of, by radioimmunoassay and microparticle enzyme immunoassay, 271**
- Proliferative activity, detection of Ki-67 proliferation rate in breast cancer and, 30**
- Proliferative breast disease, clinically occult, identification of, in women with family history of breast cancer, 157**
- Prostate**
adenocarcinoma of, differential diagnosis of, morphologic characteristics of nucleoli in, 271
clear cell cribriform hyperplasia of, immunohistochemical and DNA flow cytometric study of, 446
- Prostate cancer**
DNA flow cytometric analysis in, prognostic significance of, 271
poorly differentiated, granulomatous prostatitis distinguished from, immunohistochemical methods and, 330
- Prostate-specific antigen, poorly differentiated prostate carcinoma distinguished from granulomatous prostatitis and, immunohistochemistry and, 330**
- Prostatitis, granulomatous, poorly differentiated prostate carcinoma distinguished from, immunohistochemical methods and, 330**
- Protein C, serologic characterization of Rocky Mountain spotted fever and, 725**
- Proteinemia, Bence Jones, isolated, clinical spectrum of, 271**
- Protein tyrosine phosphatase, surface and cytoplasmic expression of CD45 antigen isoforms and, in normal and malignant myeloid cell differentiation, 180**
- Proteinuria**
Bence Jones, isolated, clinical spectrum of, 271
IgA-IgM nephropathy and, 863
- Prothrombin time, duplicate testing of, 77**
- Psammoma body, chronic sialadenitis with, mimicking neoplasia in fine-needle aspiration specimen from submandibular gland, 884**
- Psammomatous melanotic schwannoma, Carney's complex and, 484**
- Pseudogout, presenting as spinal masses, correlative light microscopy, scanning electron microscopy, and energy dispersive spectroscopy of, 271**

Q

- Quality assurance**
blood usage review and, laboratory information system for, 389
correlations in cytologic, histopathologic, and colposcopic examination and, in gynecologic malignancies, 271
- Quinine, babesiosis and, 774**

R

- Radiation-induced neoplasia, papillary carcinoma of thyroid and, 175
- Radioimmunoassay
 anti-delta EIA kit for detection of antibodies to hepatitis delta virus and, 240
 prolactin concentration and, microparticle enzyme immunoassay compared with, 271
- Rectum, small cell carcinoma of, 315
- Red blood cell indices, moving average algorithm as quality control procedure and, Technicon System H6000 and, 218
- Red blood cells
 extravascular destruction of, red cell survival studies with anti-Tc^a and, 87
 stored
 aging, irradiation effect on, 271
 freshly collected, irradiation effect on, 271
 survival of, with anti-Tc^a, 87
- Reed-Sternberg cells, paraffin section markers for comparative study of L-26, UCHL-1, LCA, EMA, and S 100 and, 271
 Lewis X and Leu M1 staining compared and, 271
- Renal cell carcinoma, cystic, multilocular, 633
- Renal hamartoma, leiomyomatous, urothelial, 481
- Renal mesenchymal proliferation, urothelial leiomyomatous renal hamartoma and, 481
- Renal pelvic mass, urothelial leiomyomatous renal hamartoma and, 481
- Residents, management informatics rotation for pathology residents and, S38
- Resin embedding, glycol methacrylate, 150
- Respiratory distress, prediction of, lamellar body number density and, 781
- Retrovirus vectors, transducing human purine nucleoside phosphorylase gene, 271
- Richter's syndrome, Southern blot analysis in, 571
- Ristocetin, platelet aggregation by, prevention by ascorbic acid, 271
- Rocky Mountain spotted fever, serologic characterization of, antibodies reactive with endothelial cells and phospholipids and factors altering protein C activation and prostacyclin secretion and, 725
- Rule generation, serum enzyme alterations in chronic muscle disease and, 402
- Russell's viper bite, antivenom therapy in, 412

S

- S 100, as paraffin section marker for Reed-Sternberg cells, 271
- Sarcoidosis, pulmonary, lymphocytic hypophysitis and, 506
- Sarcoma
 of breast, carcinomas with, 623
- Ewing's
 DNA analysis in, 271
 metastatic small cell tumor of bone and, with 'true' rosettes and glial fibrillary acidic protein positivity, 166
- granulocytic, 567
- Kaposi's, in bone marrow, in acquired immunodeficiency syndrome, 561
- ovarian, 340
- soft tissue, S2
- Schistosomiasis, fecal concentration of *Schistosoma mansoni* ova and, 91
- Schwannoma, melanotic, psammomatous, Carney's complex and, 484
- Schwann's cell, ossifying fibromyxoid tumor and, 142
- Serodiagnosis, of syphilis, cerebrospinal fluid and, Venereal Disease Research Laboratory testing and, 397
- Serous atrophy, mycobacteremia and, in AIDS, rapid diagnosis based on inclusions in peripheral blood smear and, 369
- Serum, preparation for chemistry analyses, using clot-promoting reagent, 271
- Serum alanine aminotransferase, effects of one-month physical training program on, 271
- Serum enzymes, in skeletal muscle diseases, 293, 402
- Serum α_2 fraction, as indicator of plasma cell dyscrasia, 271
- Serum prealbumin, immunoturbidimetric assay of, with centrifugal analyzer, 271
- Serum screening, monoclonality for, objective and sensitive criteria of, 271
- Sexually transmitted diseases, identification of human papillomavirus DNA sequences in peripheral mononuclear cells and, 540
- Sialadenitis, chronic, with psammoma bodies, mimicking neoplasia, in fine-needle aspiration specimen from submandibular gland, 884
- Sialolithiasis, chronic sialadenitis with psammoma bodies mimicking neoplasia in fine-needle aspiration specimen from submandibular gland and, 884
- Signet-ring carcinoma, of urinary bladder, primary, 13
- Signet ring cell morphology, acute myeloid, 567
- Skeletal muscle diseases, serum enzyme abnormalities in, 293
- Skin, melanoma and, clinical stage I, prognostic factors in, 271
- Skull injury, immunofixation to quantify β_2 transferrin in cerebrospinal fluid, to detect leakage of cerebrospinal fluid, 271
- Small cell carcinoma, of large intestine, 315
- Small cell lung cancer, morphometric study comparing nuclear diameters of small cell lung cancer to lymphocytes and, 271
- Small intestinal steatosis, in HIV enteropathy, 271
- Soft tissue sarcomas, S2
- Soft tissue tumor, ossifying fibromyxoid tumor and, 142
- Solid human tumor cells, effects of tissue disaggregation methods on clonogenicity of, 271
- Solid-phase extraction, determination of serum nicotine concentration using, 271
- Somatostatin, thyroid medullary cancer and, 300
- Southern blot hybridization, for detection of human papillomavirus DNA in biopsy specimens from cervical lesions, 638
- Southern molecular analysis, frozen sections of cellular lymphoid tissues as sample source for, 271
- Spectroscopy, energy dispersive, light microscopy and scanning electron microscopy correlated with, pseudogout presenting as spinal masses and, 271
- Sperm immunology, antisperm antibody detection using concurrent cytofluorometry and indirect immunofluorescence microscopy and, 242
- S-phase fraction analyses
 of breast carcinomas, *in vitro* labeling of breast carcinomas with bromodeoxyuridine and, 41
 flow cytometric, need for improvement in, 439
- Spinal cord compression, granulocytic sarcoma presenting as epidural mass and, in aleukemic patient, 228
- Spinal masses, pseudogout presenting as, correlative light microscopy, scanning electron microscopy, and energy dispersive spectroscopy of, 271
- Spinal spastic paraplegia, HTLV-I associated myelopathy and, after blood transfusion, hairy cell leukemia and, 72
- Spindle-cell neoplasms, fine-needle aspiration of, 271
- Spindle cell pseudotumor, attributable to *Mycobacterium avium-intracellulare* in AIDS, positive staining for desmin and, 271
- Spirochetosis, correlative light and electron microscopy of, 271
- Spleen, hemangiopericytoma of, 680
- Sputum smears, in human immunodeficiency virus, significance of mycobacteria seen on, 271

- Squamous carcinoma, esophageal, prognostic factors in, 844
- Steatosis, small intestinal, in HIV enteropathy, 271
- Steroid hormone receptors. *See also* Estrogen receptors
- assays of, in endometrial carcinoma, biochemical and immunocytochemical, comparison of, 271
 - correlation between *neu*-protein overexpression, histologic grade, lymph node involvement, and steroid receptor status in breast cancer and, 271
 - fluorescent cytochemical detection of, in breast fine-needle aspirates, 35
- Stillbirth
- associated with positive maternal syphilis serology, detection of *Treponema pallidum* in, pathologic findings and immunofluorescence for, 271
 - diagnostic yield in autopsies of stillborns and, 271
- Stomach, lymphoepithelioma of, with Epstein-Barr viral genome demonstrated by polymerase chain reactions, 271
- Stool cultures, in nosocomial diarrhea, prognosis and, 271
- Stool examination, in hospitalized patient, strategy for, 271
- Strep A Isolation Agar, for isolation of group A beta-hemolytic streptococci, comparative evaluation of, 587
- Streptococci, group A beta-hemolytic, isolation of, comparative evaluation of selective and nonselective culture techniques for, 587
- Streptococcus pneumoniae*, AccuProbe versus rapid conventional tests for identification of, 271
- Streptococcus pyogenes* infections, severe, re-emergence in New York City, 271
- Streptococcus Selective Agar, for isolation of group A beta-hemolytic streptococci, comparative evaluation of, 587
- Student recruitment, for allied health programs, 271
- Submandibular gland, fine-needle aspiration specimen from, chronic sialadenitis with psammoma bodies mimicking neoplasia in, 884
- Syphilis
- cerebrospinal fluid and, Venereal Disease Research Laboratory testing and, 397
 - positive maternal serology for, detection of *Treponema pallidum* in stillborns and, pathologic findings and immunofluorescence for, 271

T

- T-cell receptor
- gene rearrangement in diagnosis of lymphoma/leukemia and, 347
 - immunophenotyping of non-Hodgkin's lymphomas and, in paraffin-embedded tissue sections, 517
- Technicon H-1
- analysis of urine erythrocyte morphology and, hematologic flow cytometer and microscopic method for, 257
 - comparison with Coulter VCS and 800-cell manual method for white blood cell differential counts, 381
- Technicon System H6000, moving average algorithm as quality control procedure and, 218
- Terminal deoxynucleotidyl transferase, analysis by flow cytometry, 369
- Therapeutic drug monitoring, prediction of free phenytoin levels and, based on [total phenytoin]/[albumin] ratios, hypoalbuminemia and, 253
- Thrombocytopenia, coronary thrombosis in patient with May-Hegglin anomaly and, 715
- Thrombocytopenic purpura, chronic idiopathic, platelet dysfunction in Noonan's syndrome and, 739
- Thrombocytosis, essential, platelet aggregation and, in platelet-rich plasma and whole blood, 82
- Thrombosis, serologic characterization of Rocky Mountain spotted fever and, antibodies reactive with endothelial cells and phospholipids

- and factors altering protein C activation and prostacyclin secretion and, 725
- Thymocytes, immature, expansion in peripheral blood after acute bone marrow suppression, 824
- Thyroid cancer
- medullary
 - immunohistochemical and humoral study of, antigens in, 300
 - markers as prognostic indicators in, 297
 - papillary, with exuberant nodular fasciitis-like stroma, 309
- Thyroiditis, necrotizing, *Pneumocystis carinii* pneumonia presenting as, 489
- Thyroid neoplasm
- liposarcoma, fine-needle aspiration cytology, immunohistology, and ultrastructure and, 675
 - papillary carcinoma with mucoepidermoid features and, 175
 - Pneumocystis carinii* pneumonia presenting as necrotizing thyroiditis and hypothyroidism and, 489
- Timing study, computer-assisted work station timing analysis of instrument labor efficiency and, 743
- Tissue disaggregation methods, effect on clonogenicity of solid human tumor cells, 271
- Total body irradiation, detection of host cells in peripheral blood and, of bone marrow transplant recipients, probe to repeat sequence of Y chromosome for, 201
- [Total phenytoin]/[albumin] ratios, prediction of free phenytoin levels based on, hypoalbuminemia and, 253
- Toxoplasma gondii*, commercial enzyme immunoassays for, 428
- t(11;14)(q13;q2), in B-cell lymphomas, 684
- β_2 Transferrin, immunofixation to quantify in cerebrospinal fluid, to detect leakage of cerebrospinal fluid from skull injury, 271
- Transfusion committee, blood usage review and, laboratory information system for, 389
- Transthyretin, immunoturbidimetric assay of, with centrifugal analyzer, 271
- Trauma, autotransfusion in, comparison of systems for, 271
- Treponema pallidum*, detection in stillborns, associated with positive maternal syphilis serology, pathologic findings and immunofluorescence for, 271
- Trichrome staining method, for sulfated, nonsulfated, and neutral mucosubstance, 271
- Trophoblastic tissue, cytokeratin as marker for, 137
- Trophoblastic tumor, placental site, in postmenopausal woman, 670
- Tuberculosis
- meningeal, cerebrospinal fluid and, acid-fast bacillus smear and culture and, 418
 - Mycobacterium tuberculosis*, cerebrospinal fluid and, acid-fast bacillus smear and culture and, 418
- Tumor markers, prognostic value of serum proteins synthesized by breast carcinoma and, 835
- Tumors. *See specific sites and types of tumors*

U

- UCLH-1
- as marker for peripheral T-cell lymphomas, 696
 - as paraffin section marker for Reed-Sternberg cells, 271
- Ultrastructure
- liposarcoma of thyroid gland and, 675
 - neuroendocrine carcinoma of Ampulla of Vater and, 51
- Ureaplasma urealyticum*
- amniotic fluid isolation of, adverse outcome in pregnancy after, 271
 - survival of *Gardnerella vaginalis* in human urine and, 234
- Urinary bladder, primary signet-ring carcinoma of, 13

Urinary tract infection, survival of *Gardnarella vaginalis* in human urine and, 234

Urine

erythrocyte morphology and, hematologic flow cytometer and microscopic method for analysis of, 257

survival of *Gardnarella vaginalis* in human urine and, 234

Urothelial-lined papillary lesion, urothelial leiomyomatous renal hamartoma and, 481

Uterine cervix, adenocarcinoma of, human papillomavirus types 16 and 18 in, 647

V

Vascular proliferation, as cause of hemorrhagic diathesis, in myelofibrosis, 564

Venous malformation, of placenta, 48

W

Walkaway time, computer-assisted work station timing analysis of instrument labor efficiency and, 743

Warts, genital and nongenital, human papillomavirus segregation patterns and, in prepubertal children and adults, 467

White blood cell differential

Coulter STKS, field evaluation of, 207

laboratory and clinical evaluation of, Coulter VCS, Technicon H-1, and 800-cell manual method compared for, 381

Workload recording method, computer-assisted work station timing analysis of instrument labor efficiency and, 743

Y

Y chromosome, probe to repeat sequence of, detection of host cells in peripheral blood and, of bone marrow transplant recipients, 201

Z

Zinc, proteolytic inhibitory action of insulin and, 271

Book Reviews

Administration and Supervision in Laboratory Medicine, 101

Atlas of Diagnostic Immunohistochemistry, 897

Bailey and Scott's Diagnostic Microbiology, 101

Endocrine Pathology Update, 435

Handbook of Diagnostic Endocrinology, 757

Manual of Laboratory Immunology, 898

Methodological Aspects of DNA Cytometry: Image and Flow Cytometry on Malignant Tumors of the Breast, the Endometrium, the Brain and the Salivary Glands, 101

Nervous System, Muscle and Eyes, 262

Pathology of Aids, 435

Pathology of the Prostate, 262

Pathophysiology of Gastrointestinal Diseases, 898

Principles and Applications of Laboratory Instrumentation, 262

Surgical Pathology of the Breast, 897

Tumors of the Liver and Intrahepatic Bile Ducts, 601

Correspondence and Corrections, 103, 264, 437, 602, 758, 900

In Memoriam, Bert F. Woolfrey, 896

News and Notices, 102, 269, 436, 437, 606, 761, 899

INDEX OF AUTHORS

- Abbondanzo, Susan L., 103
 Ablin, Richard J., 605, 759
 Adelson, Mark D., 21
 Adler, David, 222
 Ahluwalia, Chandnish, 561
 Ahn, David K., 125
 Aiello, Antonella, 188
 Alavaikko, Martti J., 194
 Albeda, Fred W., 564
 Albores-Saavedra, Jorge, 858
 Albright, Robert E., Jr., 397, 418
 Aldape, Kenneth D., 499
 Almasri, Nidal M., 376
 Anastasi, John, 522
 Anderson, Garth, 87
 Anderson, Robert E., 542
 Andrion, Alberto, 675
 Angeles, Arturo Angeles, 51
 Ansell, Jack, 222
 Ascher, Nancy L., 499
 Ashton, Michael E., 242
 Auer, G. U., 264
 Austin, Richard E., Jr., 529
 Aversa, Gregorio G., 188
 Ayala, Alberto G., 13, 446
- Bacchi, Carlos E., 454
 Bailey, Ann, 460
 Baiocchi, Josephine M., 778
 Balduini, Carlo L., 82
 Ballance, William, 828
 Balogh, Karoly, 769
 Barron, William, 247
 Bartholoma, Nadine Y., 21
 Basolo, Fulvio, 300
 Batsakis, John G., 828
 Battifora, Hector, 460
 Bauer, Kenneth, 633
 Beckstead, Jay, 561
 Ben-Ezra, Jonathan M., 709
 Benjamin, Denis R., 889
 Benson, Neal A., 376
 Berard, Costan W., 787
 Beretta, Claudio, 218
 Bernard, H. U., 638
 Bernstein, Vanessa, 749
 Bernstein-Singer, Marjorie, 561
 Berti, Emilio, 188
 Bertolino, Giampiera, 82
 Bhargava, Vivek, 875
 Bickford, Nancy N., 408
 Birch, Douglas F., 234
 Bissell, Michael G., 247
 Blair, Tina M. H., 578
 Blank, Mary, 6
 Bledsoe, Mary C., 418
 Bondeson, Anne-Greth, 175
 Bondeson, Lennart, 175
 Bonenfant, Jean-Louis, 340
 Bonetti, Franco, 454
 Borowitz, Michael J., 526
- Bosco, Elisabetta, 675
 Bottles, Kent, 125
 Bowie, Lemuel J., 781
 Bradley, Nancy, 335
 Bradlow, Basil A., 77
 Braylan, Raul C., 376
 Brigden, M. L., 267
 Britton, Catherine T., 538
 Brivio, Rinaldo, 218
 Brock, Brenda, 526
 Brousse, Nicole, 55
 Brown, Roger W., 550
 Bruner, Janet M., 844
 Brunning, Richard D., 809
 Brunt, Elizabeth M., 503
 Bryan, Robert N., 719
 Brynes, Russell K., 561, 802
 Bundred, N. J., 903
 Burke, Allen B., 315
 Burns, Edward R., 106, 758
 Burris, William D., 743
 Buscema, Joseph, 670
 Buysens, N., 602
- Cahill, John L., 889
 Caldwell, Charles W., 180, 816, 824
 Cannon-Albright, Lisa, 157
 Caputo, Ruggero, 188
 Carcangiu, Maria L., 309
 Carr, Justine Meehan, 774
 Carrello, Salvatore, 322
 Carson, Tom H., 532
 Casey, Terence T., 696
 Cattoretti, Giorgio, 188
 Cecalupo, Anthony J., 389
 Cerezo, Lizardo, 526
 Cervantes, Francisco, 105
 Cha, Kyung Sup, 48
 Chambers, Linda A., 393, 733
 Chan, John K. C., 309
 Chan, Wing C., 900
 Chang, Victor T., 369
 Chen, Melissa G., 376
 Cheng, Lorna, 719
 Chenggis, Margie, 335
 Cheung, Pok, 753
 Chi, Je G., 48
 Ching, K. C., 638
 Choi, Young J., 475
 Chow, V. T. K., 638
 Christenson, Robert H., 397, 418
 Cleary, Karen R., 844
 Clifford, Sonya S., 538
 Coe, Sue A., 389
 Cohen, Cynthia, 335
 Cohen, Michael B., 125, 875
 Cola, Arianna, 300
 Collins, Robert D., 696
 Colombari, Romano, 454
- Comité, Stephen L., 467
 Cooper, Joseph H., 778
 Cooperstock, Michael, 824
 Corkill, Mary E., 901
 Cossman, Jeffrey, 347, 363
 Cotelingam, J. D., 103
 Cousar, John B., 696
 Cox, Robert S., Jr., 743
 Craver, Randall D., 532
 Crevon, Marie-Claude, 55
 Crist, William M., 526
 Currie, John L., 670
- D'Agay, Marie Françoise, 55
 Dasgupta, Amitava, 253
 Davey, Frederick R., 517
 Dawson, Andrea E., 529
 Daya, Dean, 137
 Dean, Roger, 253
 DeGirolami, Paola C., 769
 Dehou, Marie-Françoise, 571
 de Keizer, Rob J. W., 567
 Dekker, Andrew, 6, 489
 Delia, Domenico, 188
 Dembinski, Anna S., 96
 de Metz, Menno, 257
 Dennen, David A., 253
 DeRubertis, Frederick R., 489
 Devaney, Kenneth, 794
 de Waele, Marc, 571
 Diaz, Nils M., 614
 Dogliani, Natalia, 675
 Dohnal, James C., 781
 Donovan, Lillian M., 393
 Doshi, Himanshu M., 228
 Doshi, Salil, 489
 Duggan, David B., 517
 Durnam, Diane M., 201
- Edgerton, Susan, 41
 Ehya, Hormoz, 902
 Eichelberger, Karen, 769
 Elghetany, M. Tarek, 517
 Eliezri, Yehuda D., 467
 Elisei, Rossella, 300
 El-Naggar, Adel K., 446, 828, 844, 901
 Emery, Sherry, 774
 Emilie, Dominique, 55
 Emlet, James L., 397, 418
 Erozan, Yener S., 878
 Esteban, Jose, 623
 Esteban, Jose M., 460
 Estes, Melinda, 402
 Estevez, Enrique G., 397
 Ewen, Stanley W. B., 131
- Falk, Stephan, 355
 Falkmer, U. G., 264
 Falletta, John M., 526
 Fanning, Tina V., 901
 Farhi, Diane C., 556, 702
 Farrell, Elaine, 781
 Fechner, Robert E., 884
 Fest, Thierry, 604
 Figueroa, Manuel E., 58
 Finikiotis, Michael W., 489
 Fisher, Lloyd, 201
 Fitko, Rosanne, 481
 Fletcher, Barry, 166
 Flick, James T., 739
 Flye, M. Wayne, 503
 Folger, W. Neath, 104
 Forbes, Betty A., 21, 517
 Fox, Howard S., 499
 Fraenhoffer, Elizabeth E., 446
 Frierson, Henry F., 623
 Frierson, Henry F., Jr., 439, 493, 884
 Frizzera, Glauco, 684
 Frost, Andra R., 63
 Fugazzola, Laura, 300
 Fukuda, Shinji, 765
- Gaffey, Michael J., 623, 709
 Gaglio, Agostino, 675
 Galanaud, Pierre, 55
 Gallagher, Lisbeth, 481
 Gambacorta, Marcello, 30
 Ganser, Arnold, 355
 Garcia, Fernando U., 558
 Garcia-Caceres, Uriel, 558
 Garewal, Harinder, 602, 603
 Garrett, Carleton T., 347
 Gateley, C. A., 903
 Gaulard, Philippe, 55
 Geary, William A., 493
 Gerrits, Peter O., 150
 Gerthoux, Piermario, 218
 Giacco, Geoffrey G., 828
 Gilbert, Judyann, 778
 Go, Roy I. H., 257
 Godwin, Janice H., 369
 Godwin, Thomas A., 369
 Godyn, Janusz J., 265
 Gold, Mark, 228
 Goldsmith, Jonathan C., 96
 Gonzalez, Christopher L., 363
 Gonzalez-Crussi, Frank, 481
 Gould, Susan D., 489
 Gorecki, Thomas, 749
 Gould, Victor E., 322
 Govindarajan, Sugantha, 240
 Gown, Allen M., 454
 Graham, C. Bleas, III, 397, 418
 Gray, Lloyd S., 87
 Green, David, 715
 Greenway, Donald C., 753

- Greer, Catherine E., 117
Greiner, Timothy C., 264
Grignon, David J., 13
Grody, Wayne W., 719
Gurley, A. Marion, 653
Guthrie, Frank W., Jr., 484
- Haber, Marian M., 125
Haber, Meryl H., 538
Hall, Bruce M., 188
Hamoudi, Ayser Chalabi, 389
Hamper, K., 264
Hansmann, Martin-Leo, 194
Hanson, Linda O., 347
Hartz, Wilson, Jr., 715
Haus, Erhard, 896
Hayashi, Hideki, 506
Head, David R., 526
Heirman, Carlo, 571
Helikson, Mary A., 816
Helin, Heikki J., 863
Hensel, Diane, 587
Herrington, Ryan D., 363
Hill, Rolla B., 542
Hindmarsh, J. Thomas, 753
Hirsh, Jack, 222
Hoag, G. N., 267
Hodges, G. F., 103
Hodges, Kelly, 743
Hoelzer, Dieter, 355
Hoffman, Paul, 6
Holbrook, C. Tate, 653
Holly, Elizabeth A., 125
Holt, Hallie, 787
Hood, Daniel, 402
Horn, Michael J., 743
Hruban, Ralph H., 759
Hsieh, T'sang-T'ang, 540
Hübner, Klaus, 355
Hurlimann, Jean, 835
Hutchison, Robert E., 787
Huvs, Andrew G., 759
- Iturraspe, Jose A., 376
Iwen, Peter C., 578
- Jackson, J. Brooks, 442
Jaffe, Elaine S., 103, 347, 363, 547, 794
James, Karen K., 428
Jayaram, Gita, 901
Jellinger, Kurt, 511
Jochmans, Kristine, 571
Johnson, Douglas E., 13
Johnson, Steve, 587
Joshi, Vijay V., 653
Joyce, John, 460
Juzi, Ulrich, 412
- Kaczor, Daniel A., 408
Kanamoto, Yasuo, 765
Kanda, Makoto, 72
- Kao, Shu-Min, 591
Karcher, Donald S., 63
Karim, Fadi W. Abdul, 828
Katayama, Mashiko, 506
Katz, Laurie B. K., 902
Kawa, Keisei, 72
Kawamura, Tsugumichi, 72
Kempson, Richard L., 623
Kessimian, Noubar, 172
Khodadeen, Abid, 753
Kidd, Pamela, 105
Kinney, Marsha C., 696
Kitani, Teruo, 72
Kiviat, Nancy B., 117
Kizer, Joette, 739
Kluin, Philip M., 567
Kluin-Nelemans, Hanneke C., 567
Kobayashi, Kenichi, 850
Komaiko, William, 633
Konishi, Hiroshi, 684
Kramer, Gary, 77
Krause, John R., 6
Kruskall, Margot S., 393, 733
Kubic, Paul T., 809
Kubic, Virginia L., 809
Kumar, Ashok A. J., 878
Kuramoto, Shinken, 506
Kurec, Anthony S., 517
Kuroki, Toshitaka, 506
Kurosawa, Mitsutoshi, 72
Kyriakos, Michael, 107
- Labbe, Robert F., 758
Lai, Chyong-Huey, 540
Lake, John R., 499
Lake-Bakkar, G., 240
Lam, Moy Heang, 234
Lardelli, Pilar, 547
Larriva-Sahd, Jorge, 51
Lastarria, Debra A., 467
Lazarchick, John, 739
Lease, James A., 778
Lee, Geon Kook, 48
Lehtinen, Matti, 647
Leminen, Arto, 647
Lenhardt, T. M., 103
Lennert, Karl, 194
Lerner, Jodi, 467
Lewin, Klaus J., 719
Liaw, Yun-Fan, 591
Lieberman, Philip H., 759
Lim-Tan, S. K., 638
Lin, Che-Kit, 900
Lin, Chieh-Yu, 540
Lin, Chieh-Yue, 591
Lin, Shyh-Shyan, 540
Linder, James, 607, 51
Liu, P., 597
Lloveras, Belen, 41
Longo, Dan L., 547
Love, Jack, 347
Luckey, Carol N., 702
- Maa, Juehn-Shin, 540
Machii, Takashi, 72
Macon, William R., 696
Maekawa, Isao, 72
Malinin, George I., 424
Malinin, Theodore I., 424
Mandeli, John P., 692
Mangano, Mark M., 733
Mann, Risa B., 878
Manos, M. Michele, 117
Marocchi, Alessandro, 218
Marshall, C. Jay, 157
Martignoni, Guido, 454
Martin-Reay, David G., 484
Masood, Shahla, 35
Mazzucco, Gianna, 675
McArthur, Justin C., 878
McClellan, George A., 743
McDivitt, Robert W., 614
McDunn, Susan, 715
McGehee, William, 222
McLawhon, Ronald W., 253
McLellan, Robert, 670
McLemore, Donia, 828
McNeely, M. D., 267
McNeely, T. Bruce, 759
Mears, Terry P., 418
Medeiros, L. Jeffrey, 363, 547
Melamed, Myron R., 759
Mendelsohn, Geoffrey, 297
Menke, James A., 389
Mercado, Ulises, 268
Meyer, John S., 602
Meyer, William H., 166
Miettinen, Markku, 142
Milchgrub, Sara, 892
Miller, Theodore R., 875
Mills, Stacey E., 493
Mintz, Paul D., 87, 609
Mitrakul, Chulee, 412
Miyake, Takayoshi, 72
Mocarelli, Paolo, 218
Mohrmann, Renee L., 802
Mombello, Aldo, 454
Monaco, Sharonne, 743
Murad, Tariq, 633
Murray, Graeme I., 131
Mustonen, Jukka T., 863
Myers, Delyne J., 489
- Nakanuma, Yasuni, 850
Nanba, Koji, 536
Nance, Keith V., 867
Nathwani, Bharat N., 802
Nauta, Haring J. W., 878
Neal, E., 267
Nebendahl, Cay, 194
Neill, James S. A., 680
Nichols, Clay A., 660
Nichols, Larry, 769
Nipper, Henry C., 743
Nonaka, Kyohei, 506
Nonomura, Akitaka, 850
- Noris, Patrizia, 82
Notohara, Kenji, 684
Nugent, G. Robert, 228
Nuovo, Gerard J., 467
- Ordóñez, Nelson G., 446, 828
Orozco, Hector, 51
Otrakji, Christian L., 902
Ottmann, Oliver G., 355
Owens, Margaret, 460
Oyasu, Ryoichi, 481, 633
- Paavonen, Jorma, 647
Pacini, Furio, 300
Palmer, James O., 614
Pan, J. T., 597
Pan, Q. X., 597
Pao, Chia C., 540, 591
Parham, David M., 166
Park, H. Kim, 680
Parravicini, Carlo, 188
Parwaresch, Mohammed R., 194
Pascali, Enzo, 266
Pasternack, Amos I., 863
Patterson, William P., 180
Paulus, Werner, 511
Pea, Maurizio, 454
Pearlman, Eugene S., 778
Perneckzy, Gedeon, 511
Peterson, Sandra L., 117
Peuchmaur, Michel, 55
Pezzoli, Antonio, 266
Pickett, Denise, 587
Piletta, Gian Carlo, 82
Pinchera, Aldo, 300
Pitts, Williams C., 623
Piubello, Quirino, 454
Pleskow, Douglas, 769
Poje, Edward, 816, 824
Pongrujirkorn, Wera, 412
Pope, Thomas L., 493
Porter, David D., 719
Presti, Blair, 330
Przepiorka, Donna, 201
Pui, Ching-hon, 787
Pullen, D. Jeannette, 526
- Rabinovitch, Albert, 103
Radosevich, James A., 322
Ragni, Margaret V., 489
Rantala, Immo, 647
Rantala, Immo S., 863
Rasheed, Suraiya, 58
Reardon, David M., 207
Reller, L. Barth, 397, 418
Reuter, Victor, 759
Riding, James M., 157
Riemann, D. C., 242
Rijken, Arjen, 6
Ro, Jae Y., 13, 446, 844
Roberts, John P., 499
Robey-Cafferty, Susan S., 844
Robinson, Robert A., 264

- Rojas, Virginia A., 623
Rosa, Juan, 309, 758
Rosen, Steven T., 322
Rosenthal, Nancy S., 556
Rouse, Robert V., 623
Rowley, Howard A., 499
Royal, Walter, 878
Rozman, Ciril, 105
Rushin, J. M., 103
- Sabet, L., 137
Saghafi, Dariush, 268
Sahin, Aysegul A., 844
Sakurai, Masaharu, 684
Salgado, Camino, 105
Saltups, A., 597
Sanchez-Sosa, Sergio, 51
Sandhaus, Linda M., 104
Sandlund, John T., 787
Sandstad, Julie, 892
Santos, Maria, 769
Sasaki, Naomi, 536
Scarlett, J. D., 437
Scarpa, Aldo, 454
Schell, Wiley A., 418
Schimmelpenninck, H., 264
Schiphorst, Pieter Paul, 257
Schneider, Kenneth A., 397, 418
Schochet, Sydney S., Jr., 228
Schots, Rik, 571
Schreiber, William E., 749
Schuehler, Karen, 517
Schultz, Edward K., S50
Schumann, G. Berry, 157, 583
Secord, A. R., 103
Seipelt, Gernot, 355
Seno, Masato, 765
Sens, Mary Ann, 660
Sgoutas, Demetrios, 335
Shammo, Jammille, 781
Shattuck, Marcia C., 484
- Sheibani, Khalil, 460, 802
Shekitka, Kris M., 315
Sherman, Mark E., 878
Shibata, Darryl, 536
Shidham, Vinod Barburao, 91
Shigemori, Minoru, 506
Shuster, Jonathan J., 526
Silverman, Jan F., 653, 867
Singh, Avtar K., 739
Singh, P., 638
Sinton, Eleanor B., 242
Sioutos, Nicholas, 172
Skolnick, M. Leon, 489
Skolnick, Mark, 157
Smith, Douglas M., 96
Smith, Linda J., 347
Smith, Susan, 467
Sneige, Nour, 901
Sng, I. T. Y., 638
Sobin, Leslie H., 315
Solal-Celigny, Philippe, 55
Soligo, Davide, 188
Spagnolo, Dominic V., 322
Speicher, Carl E., 112
Starasoler, Lewis, 858
Stetler-Stevenson, Maryalice, 547
Stoloff, Amy C., 125
Stone, Brenda F., 774
Stoepck, Alison, 369
Strauchen, James A., 692
Stutte, Hans J., 355
Sughray, Maher, 769
Sun, B. Y., 597
Sun, Chien-Feng, 591
Suurmeijer, Albert J. H., 150
Swaim, William R., 381
Swanger, Ronald, 232
Swanson, Paul E., S2
Swensen, Jeff J., 583
- Takao, Shinichi, 765
Taylor, Suzanne, 6
- Terada, Tadashi, 850
Terasaki, Shuichi, 850
Têtu, Bernard, 340
Tham, K. M., 638
Thielemans, Kristiaan, 571
Thomas, E. Donnell, 201
Thompson, Elizabeth, 166
Thompson, Kenneth D., 428
Thompson, Norman W., 175
Thor, Ann D., 41
Tiarks, Cheryl, 222
Toalson, Brian D., 180
Tock, E. P. C., 638
Tokumine, Yukihiko, 72
Tokunaga, Masayoshi, 536
Tomaszewski, John E., 265
Traganos, Frank, 759
Tramacere, Pierluigi, 218
Triplett, Douglas A., 408, 725
Ts'ao, C., 715
Tsao, Kuo-Chien, 591
Tulin, Lila, 774
- Uematsu, Sumio, 878
Unger, Elizabeth R., 335
Unoura, Masashi, 850
- Valinluck, Boontar, 240
Vallera, Dino A., 247
van Camp, Ben, 571
van der Meer, Jan, 564
Van Enk, Richard A., 428
Van Lente, Frederick, 402
Van Marck, E., 602
van Melle, Guy, 835
van Veen, Saskia, 567
Vellenga, Edo, 564
Verhoeven, D., 602
Veronese, Silvio M., 30
Vesterinen, Ervo, 647
Virta, Sally, 172
- Voelkerding Karl V., 104
Vuitch, Frank, 858
Vye, Malcolm V., 781
- Wahlström, Torsten, 647
Walker, T. Stuart, 725
Walt, Ann E., 901
Wang, S. C., 597
Ward, John H., 157
Warner, Brian A., 207
Watson, Charles G., 489
Weibert, Robert, 222
Weidner, Noel, 330
Weinberg, David S., S29
Weiss, Lawrence M., 623, 709
Welch, David F., 587
Wenz, Barry, 106, 758
Whitaker, Darrel, 322
Whitten, Rich, 105
Wick, Mark R., 1
Williams, Michael, 347
Wilson, Michael L., 397
Wolf, Mary L., 389
Wolf, Paul L., 293
Woodruff, J. Donald, 670
Woods, Gail L., 96, 578
Wu, X. Y., 597
- Yamada, Kentaro, 506
Yanoff, Myron, 903
Yao, Ding-Shyan, 591
Yesus, Yohannes W., 180
Yomtovian, Roslyn, 232
Yousem, Samuel A., 763
- Zamboni, Giuseppe, 454
Zarbo, Richard J., 2
Zehnbauser, Barbara, 347
Zmijewski, Chester M., 265
Zutter, Mary, 761